نموذج رقم (١٣)

Chest Diseases and Tuberculosis	مسمى المقرر	جامعة/أكاديمية : المنيا كلية : الطب قسم: لأمراض الصدرية
CH 200	كود المقرر	

Program Specification for MSc of Chest Diseases and Tuberculosis 2022-2023

A. Basic Information:

1. **University/Academy:** Minia University
2. **Faculty/ institute:** Faculty of Medicine
3. **Department:** Chest Diseases
4. **Programme title:** Program course for Master Degree in Chest Diseases and Tuberculosis
5. **Final award:** Master Degree in Chest Diseases and Tuberculosis
6. **Programme type:** **single** double multiple
7. **Responsible department:** Department of Chest Diseases
8. **Departments involved in the programme:** Anatomy, physiology, pathology, community, biochemistery, histology, Microbiology, Pharmacology, Internal Medicine Departments
9. **Code:** CH 200
10. **Programme duration:** 2 years; 6 months for the first part and one year and half for the second part
11. **Number of programme courses:** Ten courses
12. **Coordinator:** Dr Elham Abd Elhady Abd Elghany, Assistant Professor of Chest Diseases and Tuberculosis. Minia University
13. **Internal evaluators:** Dr. Hala Abdelhameed Mohamad. Professor of Chest Diseases and Tuberculosis. Minia University
14. **External evaluators:** Dr. Khaled Hussein Professor of Chest Diseases and Tuberculosis. Assiut University
15. **Programme management team:**
    - Dr Elham Abd Elhady Abd Elghany; Assistant professor of Chest Diseases. Faculty of Medicine Minia University
    - Dr Zainab Hassan Saeed; Assistant professor of Chest Diseases. Faculty of Medicine Minia University
    - Dr. Azza Farag Saed; Professor of Chest Diseases. Faculty of Medicine Minia University and head of the department

B. Professional information:

1. Programme aims:

Graduate of master degree of chest disease and tuberculosis, the candidate should be able to:

1.1 Understanding and applying of basics of research method and research tools in chest diseases

1.2 Critically analyze, evaluate, and effectively communicate findings, theories, and methods in the field of chest diseases

1.3 Apply integrated professional and general knowledge in Chest diseases field and at the interface between different fields.

1.4 Demonstrate awareness of community health needs related to the field of chest diseases by understanding the beneficial interaction with the society to improve quality of life

1.5 Demonstrating proficiency, required to solve current complex problems in the chest diseases field

1.6 Master a variety of technical skills in pulmonology field and expert relevant equipment, technology, and software.

1.7 Gain leadership skills and be able to communicate efficiently with colleagues and get the best results.

1.8 Take professional situational decisions and logically support them as regard serious and critical situations in chest diseases.

1.9 Optimal use of available resources to achieve research or best patient health care and ensure its maintenance.

1.10 Demonstrate awareness of its role in community health development

1.11 Exhibit ethical behavior that reflect commitment to the code of practice

1.12 Demonstrate the ability to sustain a lifelong personal and professional growth.

2. Intended Learning Outcomes (ILOs):

A. <u>Knowledge and understanding:</u>

By the end of the study of master degree of chest disease and tuberculosis the candidate should be able to:

A1 Describe the essential anatomy and histology of the respiratory system and mediastinum.

A2 Identify the basic mechanisms of respiratory physiology and biochemistry

A3 Recognize the essential pathological changes of chest diseases

A4 Describe various pharmacological and non-pharmacological therapeutic options in chest medicine

A5 Recognize both microbiological basics and immunological basics of the respiratory system.

A6 Recognize the principles of public health problems related to chest medicine

A7 Define the main diseases in chest medicine

A8 Identify the etiology of the main chest diseases

A9 Recognize the basic principles of respiratory intensive care

A10 Recognize the essentials of general medicine

A11 Recognize the influence of professional practice on work environment, working conditions, and job characteristics

A12 Identify the scientific development and advances in respiratory medicine.

A13 Identify the basic ethical and medicolegal principles that should be applied in practice and are relevant to the respiratory medicine

A14 Identify the basics and standards of quality assurance to ensure good clinical care practice in the field of respiratory medicine

A15 Identify the medical ethics and scientific principles of research methodology

B. Intellectual skills

By the end of the master degree of chest disease and tuberculosis the candidate should be able to:

B1 Solve problems of common clinical situations related to respiratory medicine using an investigatory and analytic thinking approach

B2 Combine knowledge for professional problems' solving

B3 Design a research study or review on common clinical problems relevant to the field of respiratory medicine

B4 Apply research methods to carry out research thesis

B5 Define hazards and risks in professional practices in the field of respiratory medicine.

B6 Recognize different strategies that can improve productivity and performance

B7 Recognize decision making in different professional situations

Skills:

C. Professional and practical skills

By the end of the study of master degree of chest disease and tuberculosis the candidate should be able to:

C1 Perform competently basics and advanced skills and procedures considered essential for diagnosis of respiratory diseases

C2 Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets.

C3 Organize a proper medical report

C4 Recognize all technical advances during research

D. General and transferable skills

By the end of the study of master degree of chest disease and tuberculosis the candidate should be able to:

D1 Communicate effectively with the patients, their families and all health care personnel

D2 Perform data management including data entry and analysis using information technology to manage information, access online medical information; and support own education.

D3 Be aware of the importance of life-long self-learning and show a strong commitment to it.

D4 Organize material from different scientific sources including library, electronic and online resources.

D5 Able to put and use indicator for evaluating the performance of others.

D6 Cooperate with other specialties

D7 Able to be a team worker and leader while working with other colleagues

D8 Deal efficiently with time

D9 Develop a life-long attitude of continuous self-improvement and continuous medical education.

3. Program Academic Reference Standards:

3a- Faculty of medicine, Minia University adopted the General national Academic Reference Standards (GARS) provided by the national authority for quality assurance and accreditation of education (NAQAAE) for all postgraduate programs (faculty council Degree No.6854, in its cession No.177 Dated: 18\5\2009).

3b- Then, Faculty of medicine, Minia University adopted General national Academic Reference Standards (GARS) provided by the national authority for quality assurance and accreditation of education (NAQAAE) for all postgraduate programs (faculty council Degree No.7528, in its cession No.191 Dated: 15\3\2010, last update 20\2\2023). (Annex 1 show comparison between NAQAAE; GARS and Faculty Academic Reference Standards (ARS)

3c- Then, Chest Diseases and Tuberculosis department has developed the Intended Learning Outcome (ILOs) for doctorate (MD) program in chest diseases and tuberculosis and the date for program specification first approval was by department council 15\3\2010, the last update 6/3/2023 (Annex 2).

Program External References: not applicable

Programme structure and contents:

4. Programme duration: 4 semester (2 years)

First part: (≥6 months = 1 semesters)		
Subject	**Lectures** **No of Hour**	**Practical/Tutorial** **No of Hour**
1-Internal medicine	2	30hs
2-Biochemistry	2	30
3-Physiology	2	30
4-Anatomy	2	30
5-Histology	2	30
6-Pathology	2	30
7-Pharmacology	2	28
8-Microbiology	2	30
9-Public health	2	30
Second part: (≥ 24months=4 semesters)		
Subject	**Lectures** **No of Hour**	**Clinical** **No of Hour**
Chest diseases and tuberculosis	90	**45**
Third part: (≥ 12 months)		
Research Thesis	Continuous	

5. Programme courses

Course Title		Total Hou/ week	hours /week		Program ILOs Covered
			Lect	Clinical	
FIRST PART (level of course): (≥6 months = 1 semesters)					
1-Internal medicine	CH200	30	2		A10
2-Biochemistry	CH200	30	2		A3
3-Physiology	CH200	30	2		A2
4-Anatomy	CH200	30	2		A1
5-Histology	CH200	30	2		A2
6-Pathology	CH200	30	2		A4
7-Pharmacology	CH200	28	2		A5
8-Microbiology	CH200	30	2		A6
9-Public health	CH200	30	2		A6, 15
Training programs and workshops, field visits, seminars & other scientific activities		Continuous			D1-D9
SECOND PART (level of course): (≥ 24months=4 semesters)					
Course Title		**Hour / week**	**hours /week**		
			Lect .	**Clinical**	
1- Pulmonary Diseases	CH200	48hs	26		A6-A9 B1-B7 C1-C4
2-Tuberculosis & infections(TB)	CH200	10 hs	5		
3-Respiratory intensive care	CH200	18hs	8		
4-Radiology	CH200	10 hs	2		
5- Procedure in chest diseases	CH200	4 hs	4		
Training programs and workshops, field visits, seminars& other scientific activities		Continuous			

6. Programme admission requirements:

1. General requirements:

A- Candidates should have either:

1. MBBCH degree from any Egyptian faculty of medicine or

2. Equivalent degree from medical schools abroad approved by the Ministry of Higher education.

B- Candidate should complete the house office training year or years.

C- Follows postgraduate regulatory rules of Minia faculty of medicine.

2. Specific requirements:

A- Candidates graduated from Egyptian universities should be have at least "Good Rank" in their final years examination and grade "Good Rank "in internal medicine course too.

B- Candidate should know how to speak& write English well.

D- Candidate should have computer skill.

7. Regulations for progression and programme completion

Duration of program is 4 semesters (2 years), starting from registration in October till the second part exam; divided to:

First Part: (≥6 months=1 semester):

- All courses as specified in the internal by law
- At least six months after registration should pass before the student can ask for examination in the 1st part.
- Two sets of exams: 1st in April — 2nd in October.
- For the student to pass the first part exam, a score of at least 60% in each curriculum is needed (with at least 40% in the written exam).
- Those who fail in one curriculum need to re-exam it only.

Thesis/essay:

Start after at least 6 month from registration and should be completed, and accepted at least after passing the 1st part examination and at least one month before allowing to enter 2nd part final exam.

- Accepting the thesis is enough to pass this part.

Second Part: (≥18 months=3 semesters):

- Program related specialized Courses.
- Actual work for 36 months as a demonstrator /trainee in the department of Chest Diseases.
- The student should pass the 1st part before asking for examination in the 2ndpart.
- Two sets of exams: 1st in April— 2nd in October.
- For the student to pass the second part exam, a score of at least 60% in each curriculum is needed (with at least 40% in the written exam).

- Fulfilment of the requirements in each course as described in the template and registered in the log book is a prerequisite for candidates to be assessed and undertake part 1 and part 2 examinations; as following:
  - Training courses
  - Grand rounds (Only in clinical departments)
  - Case presentation
  - Seminars
  - Thesis discussion
  - Workshops
  - Conference attendance
  - Journal club
  - Other scientific activities requested by the department

8. Teaching and learning methods

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)
Lecture	A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15 B1, B2, B3, B4, B5, B6, B7
Clinical: ● Case presentation, ● Bedside clinical**;** ● Practical clinical examination in wards and ICU, ● Discussion of medical problems in clinical staff round	C1, C2, C3, C4
Presentations **Journal club** **Thesis discussion attendance** **Training courses** **Workshops** **Seminars** **Morbidity and mortality conference** **Other scientific activities requested by the department**	D1, D2, D3, D4, D5, D6, D7, D8, D9

9. Methods of student assessment:

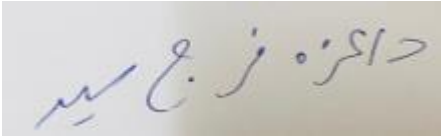
Method of assessment	The assessed ILOs
1. Written Exams: ● Paper 1 and paper 2 include: ● Short essay ● MCQs ● Problem solving	A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15 B1, B2, B3, B4, B5, B6, B7
2. Clinical Exams: Long case and 2 short cases	C1, C2, C3, C4
3. Oral Exams **4. Investigations exams:** Interpretation of CXR, CT, PFTs, ABGs	A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14 B1, B2, B3, B4, B5, B6, B7 D1, D2, D3, D4, D5, D6, D7, D8, D9

10. Evaluation of programme intended learning outcomes:

Evaluator (By whom)	Method/tool	Sample
1. Senior students (Students of last year	Questionnaires	10
2. Graduates (Alumni)	Questionnaires	5
3. Stakeholders	Meeting Questionnaires	5
4. External & Internal evaluators and external examiners	Reports	2
5. Quality Assurance Unit	Reports Questionnaires Site visits	1
6. Exams results	Results analysis Report	10

Program coordinator: Ass. Prof. Dr.Elham Abd-elhady Abdelghany

Head of the chest and tuberculosis department: Prof. Dr. Azza Farag Saed



Date of last update & approval by department Council: 6 / 3 / 2023

Annex (1): Comparison between National Academic Quality Assurance & Accreditation (NAQAAE) General Academic Reference Standards (GARS) and Faculty Academic Reference Standards (ARS)

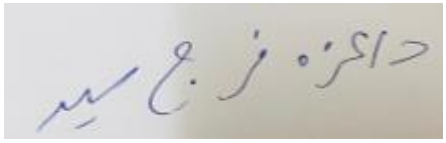
NAQAAE برامج الماجستير	Faculty Master (MSC) Program
١. مواصفات الخريج: خريج برنامج الماجستير في أي تخصص يجب أن يكون قادرا على:	**1. Graduate Attributes:** Graduate of master (MSC) program should be able to:
١,١. إجادة تطبيق أساسيات ومنهجيات البحث العلمي واستخدام أدواته المختلفة.	1.1. understanding and applying of basics of research method and research tools
١,٢. تطبيق المنهج التحليلي واستخدامه في مجال التخصص	2.1. Critically analyze, evaluate, and effectively communicate findings, theories, and methods
١,٣. تطبيق المعارف المتخصصة و دمجها مع المعارف ذات العلاقة في ممارسته المهنية.	3.1. Apply integrated professional and general knowledge in his scholarly field and at the interface between different fields.
١,٤. إظهار وعيا بالمشاكل الجارية والرؤى الحديثة في مجال التخصص.	4.1. Demonstrate awareness of community health needs related to the field of specialization by understanding the beneficial interaction with the society to improve quality of life
١,٥. تحديد المشكلات المهنية وإيجاد حلولا لها.	5.1. Demonstrating proficiency, required to solve current complex problems in his scholarly field.
١,٦. إتقان نطاق مناسب من المهارات المهنية المتخصصة واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية.	6.1. Master a variety of technical skills in his scholarly field and expert relevant equipment, technology, and software.
١,٧. لتواصل بفاعلية والقدرة على قيادة فرق العمل.	7.1. Gain leadership skills and be able to communicate efficiently with colleagues and get the best results.
١,٨. اتخاذ القرار في سياقات مهنية مختلفة.	8.1. Take professional situational decisions and logically support them.
١,٩. توظيف الموارد المتاحة بما يحقق أعلي استفادة و الحفاظ عليها	9.1. Use optimally the available resources to achieve research or best patient health care and ensure its maintenance.

١٠,١. إظهار الوعي بدوره في تنمية المجتمع والحفاظ على البيئة في ضوء المتغيرات.	10.1. Demonstrate awareness of its role in community health development and
١١,١. التصرف بما يعكس الالتزام بالنزاهة والمصداقية والالتزام بقواعد المهنة.	11.1. Exhibit ethical behavior that reflect commitment to the code of practice
١٢,١. تنمية ذاته أكاديميا ومهنيا و قادرا علي التعلم المستمر.	12.1. Demonstrate the ability to sustain a lifelong personal and professional growth.
٢.المعايير القياسية العامة: **NAQAAE General Academic Reference Standards "GARS" for Master Programs**	**2. Faculty Academic Reference Standards (ARS) for Master Program**
٢,١. المعرفة والفهم: بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا علي الفهم والدراية بكل من:	**2.1. Knowledge & Understanding:** Upon completion of **the Master Program in**……., the graduate should have sufficient knowledge and understanding of:
٢,١,١. النظريات والأساسيات والحديث من المعارف في مجال التخصص والمجالات ذات العلاقة	2.1.1. Understand the scientific basis and modern knowledge in the field of specialization and related medical sciences
٢,١,٢. التأثير المتبادل بين الممارسة المهنية وانعكاسها علي البيئة	2.1.2. The mutual influence of professional practice on work environment, working conditions, and job characteristics.
٢,١,٣. التطورات العلمية في مجال التخصص	2.1.3. Scientific developments in the field of specialization
٢,١,٤. المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص	2.1.4. Recognize basics of medico-legal aspects of practice, malpractice and avoid common medical errors
٢,١,٥. مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص	2.1.5. Quality principles in the scholarly field
٢,١,٦. أساسيات وأخلاقيات البحث العلمي	2.1.6. Basis of research methodology and medical ethics.
٢,٢. المهارات الذهنية: بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:	**2.2. Intellectual Skills:** Upon completion of the master program of……, the graduate should be able to:
2.2.1. تحليل وتقييم المعلومات في مجال التخصص والقياس عليها لحل المشاكل	2.2.1. Use judgment skills for analytical and critical problem solving
2.2.2. حل المشاكل المتخصصة مع عدم توافر بعض المعطيات	2.2.2. Capable of integrating knowledge and dealing with complex subjects to solve problems

2.2.3الربط بين المعارف المختلفة لحل المشاكل المهنية	2.2.3. Be capable of integrating research results and/or results of history, physical and laboratory test findings to solve a research or a clinical problem.
2.2.4. إجراء دراسة بحثية و/أو كتابة دراسة علمية منهجية حول مشكلة بحثية	2.2.4. Effectively apply research methods and carrying out a medical research thesis
2.2.5. تقييم المخاطر في الممارسات المهنية في مجال التخصص	2.2.5. Be aware of risk management principles, and patient safety.
2.2.6. التخطيط لتطوير الأداء في مجال التخصص	2.2.6. Establish goals, commitments, and strategies for improved professional performance in the field of specialty
2.2.7. اتخاذ القرارات المهنية في سياقات مهنية متنوعة.	2.2.7. Take professional situational decisions and logically support them.
٣,٢. المهارات المهنية: بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:	**3.2. Professional Skills:** Upon completion of the master program of……, the graduate must be able to:
3.2.1. إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص.	3.2.1. Master the basic and some advanced professional skills in his scholarly field.
٣,٢,٢كتابة و تقييم التقارير المهني.	3.2.2. Write and evaluate medical or scientific reports
٢,٣,٣تقييم الطرق والأدوات القائمة في مجال التخصص	3.2.3. Assess and evaluate technical tools during research
٤,٢. المهارات العامة والمنتقلة : بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:	4.2. **General and transferable skills** Upon completion of the master program of……, the graduate should be able to:
٤,٢,١. التواصل الفعال بأنواعه المختلفة	4.2.1. Communicate effectively using a written medical record, electronic medical record, or other digital technology.
٤,٢,٢. استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية	4.2.2. Use of information technology (computer to create, process, store, secure and exchange electronic data) in the field of medical practice.
4.2.3. لتقييم الذاتي وتحديد احتياجاته التعلمية الشخصية	4.2.3. Assess himself and identify personal learning needs
4.2.4. استخدام المصادر المختلفة للحصول على المعلومات والمعارف	4.2.4. Use various sources for information (physical and digital sources).

4.3.5. وضع قواعد ومؤشرات تقييم أداء الآخرين	4.2.5. Setting indicators for evaluating the performance of others
4.2.6. العمل في فريق، وقيادة فرق في سياقات مهنية مختلفة	4.2.6. Work in a team, and Apply leadership skills to enhance team functioning, the learning environment, and/or the health care delivery system
4.2.7. إدارة الوقت بكفاءة	4.2.7. Manage time efficiently
٤,٢,٨.التعلم الذاتي والمستمر	4.2.8. Demonstrate skills of self-learning and lifelong learning needs of medical profession.

Date of the last approval by department council: 6-3-2023
Head of the department signature:



Annex (2): correlation between General Academic Reference Standards GARS, Faculty Academic Reference Standards (ARS) and programme ILOs

NAQAAE :٢.المعايير القياسية العامة General Academic Reference tandards "GARS" for Master Programs	2. Faculty Academic Reference Standards (ARS) for Master Program	Program ILOs
٢,١. المعرفة والفهم: بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا علي الفهم والدراية بكل من:	**2.1. Knowledge & Understanding:** Upon completion of **the Master Program in**……., the graduate should have sufficient knowledge and understanding of:	**1. Knowledge and understanding:**
٢,١,١. النظريات والأساسيات والحديث من المعارف في مجال التخصص والمجالات ذات العلاقة	2.1.1. Understand the scientific basis and modern knowledge in the field of specialization and related medical sciences	**A1** Describe the essential anatomy and histology of the respiratory system and mediastinum. **A2** Identify the basic mechanisms of respiratory physiology and biochemistry **A3** Recognize the essential pathological changes of chest diseases **A4** Describe various pharmacological and non-pharmacological therapeutic options in chest medicine **A5** Recognize both microbiological basics and immunological basics of the respiratory system. **A6** Recognize the principles of public health problems related to chest medicine **A7** Define the main diseases in chest medicine **A8** Identify the etiology of the main chest diseases **A9** Recognize the basic principles of respiratory intensive care **A10** Recognize the essentials of general medicine.

٢,١,٢. التأثير المتبادل بين الممارسة المهنية وانعكاسها علي البيئة	2.1.2. The mutual influence of professional practice on work environment, working conditions, and job characteristics.	**A11** Recognize the influence of professional practice on work environment, working conditions, and job characteristics
٢,١,٣. التطورات العلمية في مجال التخصص	2.1.3. Scientific developments in the field of specialization	**A12** Identify the scientific development and advances in respiratory medicine.
٢,١,٤. المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص	2.1.4. Recognize basics of medico-legal aspects of practice, malpractice and avoid common medical errors	**A13** Identify the basic ethical and medicolegal principles that should be applied in practice and are relevant to the respiratory medicine
٢,١,٥. مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص	2.1.5. Quality principles in the scholarly field	**A14** Identify the basics and standards of quality assurance to ensure good clinical care practice in the field of respiratory medicine
٢,١,٦. أساسيات وأخلاقيات البحث العلمي	2.1.6. Basis of research methodology and medical ethics.	**A15** Identify the medical ethics and scientific principles of research methodology
٢,٢. المهارات الذهنية: بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:	**2.2. Intellectual Skills:** Upon completion of the master program of……, the graduate should be able to:	**2.2. Intellectual skills:**
2.2.1. تحليل وتقييم المعلومات في مجال التخصص والقياس عليها لحل المشاكل	2.2.1. Use judgment skills for analytical and critical problem solving	**B1** Solve problems of common clinical situations related to respiratory medicine using an investigatory and analytic thinking approach
2.2.2. حل المشاكل المتخصصة مع عدم توافر بعض المعطيات	2.2.2. Capable of integrating knowledge and dealing with complex subjects to solve problems	**B2** Combine knowledge for professional problems' solving
2.2.3 الربط بين المعارف المختلفة لحل المشاكل المهنية	2.2.3. Be capable of integrating research results and/or results of history, physical and laboratory test findings to solve a research or a clinical problem.	**B3** Design a research study or review on common clinical problems relevant to the field of respiratory medicine

2.2.4. إجراء دراسة بحثية و/أو كتابة دراسة علمية منهجية حول مشكلة بحثية	2.2.4. Effectively apply research methods and carrying out a medical research thesis	**B4** Apply research methods to carry out research thesis
2.2.5. تقييم المخاطر في الممارسات المهنية في مجال التخصص	2.2.5. Be aware of risk management principles, and patient safety.	**B5** Define hazards and risks in professional practices in the field of respiratory medicine.
2.2.6. التخطيط لتطوير الأداء في مجال التخصص	2.2.6. Establish goals, commitments, and strategies for improved professional performance in the field of specialty	**B6** Recognize different strategies that can improve productivity and performance
2.2.7. اتخاذ القرارات المهنية في سياقات مهنية متنوعة.	2.2.7. Take professional situational decisions and logically support them.	**B7** Recognize decision making in different professional situations
٣,٢. المهارات المهنية: بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:	**3.2. Professional Skills:** Upon completion of the master program of……, the graduate must be able to:	2.3. Professional skills:
3.2.1. إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص.	3.2.1. Master the basic and some advanced professional skills in his scholarly field.	**C.1**Perform competently basics and advanced skills and procedures considered essential for diagnosis of respiratory diseases
٣,٢,٢كتابة و تقييم التقارير المهني.	3.2.2. Write and evaluate medical or scientific reports	**C.2**Write competently all forms of patient charts and sheets including reports evaluating these charts and sheets. **C.3**Organize a proper medical report
٢,٣,٣تقييم الطرق والأدوات القائمة في مجال التخصص	3.2.3. Assess and evaluate technical tools during research	**C.4**Recognize all technical advances during research
٤,٢. المهارات العامة والمنتقلة : بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:	4.2. **General and transferable skills** Upon completion of the master program of……, the graduate should be able to:	**2.4. General and transferable skills**
٤,٢,١. التواصل الفعال بأنواعه المختلفة	4.2.1. Communicate effectively using a written medical record, electronic medical record, or other digital technology.	**D.1**Communicate effectively with the patients, their families and all health care personnel

٤,٢,٢. استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية	4.2.2. Use of information technology (computer to create, process, store, secure and exchange electronic data) in the field of medical practice.	**D.2** Perform data management including data entry and analysis using information technology to manage information, access online medical information; and support own education.
4.2.3. لتقييم الذاتي وتحديد احتياجاته التعلمية الشخصية	4.2.3. Assess himself and identify personal learning needs	**D.3** Be aware of the importance of life-long self-learning and show a strong commitment to it.
4.2.4. استخدام المصادر المختلفة للحصول على المعلومات والمعارف	4.2.4. Use various sources for information (physical and digital sources).	**D.4** Organize material from different scientific sources including library, electronic and online resources.
4.3.5. وضع قواعد ومؤشرات تقييم أداء الآخرين	4.2.5. Setting indicators for evaluating the performance of others	**D.5** Able to put and use indicator for evaluating the performance of others. **D.6** Cooperate with other specialties
4.2.6. العمل في فريق، وقيادة فرق في سياقات مهنية مختلفة	4.2.6. Work in a team, and Apply leadership skills to enhance team functioning, the learning environment, and/or the health care delivery system	**D.7** Able to be a team worker and leader while working with other colleagues
4.2.7. إدارة الوقت بكفاءة	4.2.7. Manage time efficiently	**D.8** Deal efficiently with time
٤,٢,٨.التعلم الذاتي والمستمر	4.2.8. Demonstrate skills of self-learning and lifelong learning needs of medical profession.	**D.9** Develop a life-long attitude of continuous self-improvement and continuous medical education.

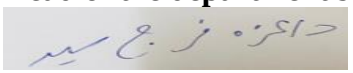
Date of the last approval by department council: 6-3-2023
Head of the department signature:

Annex (3): Matrix of coverage of Master program ILOs by course

Courses	A- Knowledge and Understanding															B- Intellectual skills							C. Professional				D. General and transferrable skills									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	4	5	6	7	8	9
Anatomy	X																																			
Histology	x																																			
Physiology		X																																		
Biochemistry		x																																		
Pathology			X																																	
Pharmacology				X																																
Microbiology					X										x																					
Public health						x																														
Internal Medicine										x																										
Pulmonary Medicine						x	X	x	x	x	x	x	x	x		X	x	x	X	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Scientific activities						x	X	x	x	x	x	x	x	x		X	x	x	X	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Residency training program																X	x	x	X	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Master Thesis	x	x	x	X	x	x	X	x	x	x						X	x	x	X	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

Date of the last approval by department council: 6-3-2023

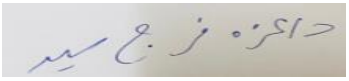
Head of the department signature:



Annex (4): Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1—A15	B1—B7		
Clinical			C1—C4	
Presentation				D1—D9
Journal club				D1—D9
Thesis discussion				D1—D9
Training courses & workshops				D1—D9
Seminar				D1—D9

Date of the last approval by department council: 6-3-2023
Head of the department signature:



Annex (5): Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	A1—A15	B1—B7		
Clinical exam			C1-C4	
Oral Exam	A1—A15	B1—B7		D1—D9
Assignments				D1—D9
Other: group discussion, seminars, presentations,				D1—D9

Date of the last approval by department council: 6-3-2023
Head of the department signature:

نموذج رقم (١٢)

جامعة/أكاديمية : المنيا كلية / معهد: الطب قسم: الأمراض الصدرية	مسمى المقرر	Chest Diseases and Tuberculosis
	كود المقرر	CH 200

Course Specifications of MSc degree in Chest Diseases and tuberculosis

1. Course Information

University: Minia University

Faculty: Faculty of Medicine

Department: Chest Diseases

Academic Year/level: 2023

Course Title: Master Degree Chest Diseases and Tuberculosis

Code: CH200

Number of teaching hours:

- **Lectures:** Total 90 hours; 2 hours/week
- **Clinical:** Total of 45 hours;

Last date of approval: 6/3/2023

2. Overall Aims of the course

By the end of the course the student must be able to:

- 1.1. Competent pulmonologist with standard knowledge and skills of chest medicine
- 2.1. Diagnose and treat chest diseases including critical respiratory illnesses
- 3.1. Graduate is expected to apply recent national and international guidelines in chest medicine
- 4.1. Practice with sound professional ethical attitude; to interact with community problems
- 5.1. To take personal responsibility for his/her own continued medical development
- 6.1. Understand basics of scientific medical research.

3. Intended learning outcomes of course (ILOs)

Upon completion of the course, the student should be able to:

A- Knowledge and Understanding

A1 Define the anatomy of respiratory system in health and diseases.

A2 Recognize normal lung physiology in health and diseases.

A3 Describe items of history taking and their interpretation.

A4 Recognize the causation of chest disease and tuberculosis problems and their pathogenesis.

A5 Recognize the clinical picture and differential diagnosis of respiratory diseases.

A6 Define recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of respiratory diseases.

A7 Describe recent advances in the various therapeutic methods/alternatives used for respiratory diseases.

A8 Recognize the principles, fundamentals of respiratory diseases in ICU and recent methods of ventilation.

A9 Describe basics in the knowledge of the sleep medicine, diagnosis and treatment.

A10 Define diagnostic and therapeutic bronchoscopy.

A11 Recognize indication, contraindication and complication of surgical lines of different chest diseases.

A12 Perform of pulmonary function tests and interpret its report

A13 Interpret chest X Ray and CT.

B- Intellectual Skills

B1 Interpret data acquired through history taking to reach a provisional diagnosis for respiratory diseases.

B2 Interpret data acquired through history taking to reach a provisional diagnosis for respiratory diseases.

B3 Extract from different diagnostic alternatives the ones that help reaching a final diagnosis for respiratory diseases.

B4 Connect research studies that add to knowledge.

B5 Extract scientific papers in the area of chest diseases and tuberculosis.

B6 Identify risk in professional practices in the field of chest diseases and tuberculosis.

B7 Change performance in the field of chest diseases and tuberculosis.

B8 Identify chest diseases and tuberculosis problems and find solutions.

C- Professional and Practical Skill

C1 Elicit the basic and modern professional clinical skills in the area of chest diseases and tuberculosis.

C2 Conduct methods and tools existing in the area of chest diseases and tuberculosis.

C3 Use imaging evaluation of respiratory problems ± bronchoscopy

C4 Handle ICU equipment.

D- General and transferable skills

D1 Appraises, and assimilates evidence from scientific studies according to patients' condition.

D2 Apply evidence-based guidelines according to patient condition.

D3 Apply knowledge of study designs and statistical methods on diagnostic and therapeutic approaches.

D4 Tell a report in common chest diseases.

4. Course Contents

Topic	Lecture hours/ week	Clinical hours/week	Total hours /week
1-Structure of respiratory system	2	-	2
2-Function of respiratory system	2	-	2
3-Physiology of the lung	2	-	2
4-Diagnostic approach to symptoms	2	3	5
5-Diagnostic Procedures, Part I	2	1	3
6-Diagnostic Procedures, Part II	2	1	3
7-General principles of treatments in chest diseases	2	-	2
8-Radiographic evaluation of the chest.	2	2	4
9-Respiratory emergencies	2	1	3
10-Airway diseases, Part I	2	1	3
11-Airway diseases, Part II	2	1	3
12-Respiratory Infections, Part I	2	1	3
13-Respiratory Infections, Part II	2	1	3
14-Mycobacterial Diseases (TB), Part I	2	1	3
15-Mycobacterial Diseases (TB), Part II	2	1	3
16-COVID-19	2	1	3
17-Thoracic Tumors, Part I	2	1	3
18-Thoracic Tumors, Part I	2	1	3
19-Diffuse parenchymal lung diseases (Non-fibrotic)	2	1	3
20-Diffuse parenchymal lung diseases (fibrotic)	2	1	3
21-Occupational Diseases	2	1	2

22-Drug induced lung diseases	2	-	2
23-Sleep Disorders	2	1	3
24-Respiratory failure	2	1	3
25-Pulmonary vascular diseases, part I	2	1	3
26-Pulmonary vascular diseases, part II	2	1	3
27-Diseases of chest wall and muscles	2	1	3
28-Pleural diseases, part I	2	1	3
29-Pleural diseases, part II	2	1	3
30-Mediastinal diseases	2	1	3
31-Pulmonary diseases in systemic disorders,	2	1	3
32-Genetic Diseases	2	1	3
33-Respiratory emergencies	2	1	3
34-Pulmonary diseases in immunocompromised	2	1	3
35-Connective tissue diseases and lung	2	1	3
36-Cor pulmonale	2	1	3
37-Drug and toxin induced lung diseases	2	-	3
38-Oxygen therapy	2	1	3
39-Non – Invasive ventilation	2	1	3
40-Airway management	2	2	4
41-Basics and setting of IMV	2	1	3
42-Modes , Monitoring of IMV	2	1	3
43-Weaning of IMV	2	1	3
44-Troubleshooting of IMV	2	1	3
45-IMV in special diseases	2	1	3
Total	**90**	**45**	**135**

5. Teaching and Learning Methods

1. **Lectures**
2. **Clinical**:
   - Case presentation,
   - Bedside clinical**;**
     - Clinical examination in wards and ICU,
     - Discussion of medical problems in clinical staff round
3. **Others:**
   - Presentations
   - Journal club
   - Thesis discussion attendance
   - Training courses
   - Workshops
   - Seminar
   - Morbidity and mortality conference
4. **Teaching and Learning Methods for students with limited Capacity**
   - Additional lectures, adjusting time and place of lectures according to their schedule and capacity

6. Student Assessment

<table>
<tr><td>A. Student Assessment Methods</td><td colspan="4">1. Student assignments: to assess general transferable skills and intellectual skills
2. Written examination: to assess knowledge and intellectual skills
3. Clinical examination: to assess practical and intellectual skills.
4. Oral examination: to assess knowledge intellectual skills and general skills.</td></tr>
<tr><td>B. Assessment Schedule (timing of each method of assessment)</td><td colspan="4">1. Assessment 1 … Assignment…. .Week: 30-31
2. Assessment 2 … Written exam…Week: 96
3. Assessment 3…. Clinical exam…Week: 96
4. Assessment 4….. Oral exam…….Week: 96</td></tr>
<tr><td rowspan="4">C. Weighting of Each Method of Assessment</td><td>Courses</td><td colspan="3">Degree</td></tr>
<tr><td></td><td>Written exam</td><td>Oral</td><td>Clinical</td></tr>
<tr><td>Pulmonary medicine
Paper 1
Paper2</td><td>
140
140</td><td>220</td><td>200</td></tr>
<tr><td>Total</td><td colspan="3">700</td></tr>
</table>

7. List of References

A. Course Notes/handouts	Course notes and Staff members print out of lectures and/or CD copies
B. Essential Books	Oxford Hand Book of Respiratory Diseases, 2021 The ICU Book (Paul Marino) 4th edition 2014
C. Recommended Text Books	Fishman's Pulmonary Diseases and Disorders. 6th edition 2022 Murray & Nadel's Textbook of Respiratory Medicine. 6th edition 2021
D. Periodicals, websites	Chest Journal Thorax Journal American Journal of Respiratory and Critical Care Medicine European Respiratory Journal http://www.ncbi.nlm.nih.com http://www.pubmed.com http://www.medscape.com

Course Coordinator/s: Ass. Prof. Dr. Elham Abdelhady Abdelghany

Head of Department: Prof. Dr. Azza Farrag Said.

Date of last update & approval by department Council: 6 / 3 / 2023

MASTER PROGRAM FOR CHEST DISEASES AND TUBERCULOSIS

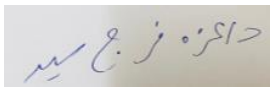
Blueprint of Msc degree of chest diseases and tuberculosis 2nd part Examination Paper I (140 marks)

	Topic	Hours	Knowledge %	Intellectual %	% of topic	Knowledge mark	Intellectual mark	Marks	Actual marks
1	Structure, function, physiology of lung	6	70	30	13.3	13.2	5.3	18.6	19
2	Procedures	4	30	70	8.85	3.7	8.7	12.4	12
3	Radiology	2	30	70	4.4	1.8	4.4	6.2	6
4	Drugs	2	50	50	4.4	3.1	3.1	6.2	6
5	Airway diseases	6	50	50	13.3	9,3	9.3	18.6	19
6	DPLD	4	50	50	8.85	6.1	6.1	12.4	12
7	Pleural diseases	4	50	50	8.85	6.2	6.2	12.4	12
8	Mediastinal & chest wall	4	50	50	8.85	6.2	6.2	12.4	12
9	Occupational &environmental	4	50	50	8.85	6.2	6.2	12.4	12
10	Respiratory tumors	4	50	50	8.85	6.2	6.2	12.4	13
11	Genetics	2	50	50	4.4	3.3	3.3	6.7	7
12	Lung in systemic diseases	3	70	30	6.6	4.3	4.3	8.6	9
	Total	45			100				140

Blueprint of Msc degree of chest diseases and tuberculosis 2nd part Examination Paper II (140 marks)

No	Topic	Hours	Knowledge %	Intellectual %	% of topic	Knowledge mark	Intellectual mark	Marks	Actual marks
1	Infections	8	70	30	17.7	16.8	7.2	24.8	25
2	TB	4	50	50	8.85	6.2	6.2	12.4	12
3	COVID-19	4	50	50	8.85	6.2	6.2	12.4	12
4	Pulmonary vascular	4	50	50	8.85	6.2	6.2	12.4	12
5	Respiratory failure	5	30	70	11.1	4.6	11	15.6	16
6	Oxygen therapy	2	30	70	4.4	1.86	4.34	6.2	6
7	RICU	14	30	70	31.1	13	30.5	43.5	44
8	Sleep disorders	4	50	50	8.85	6.2	6.2	12.4	12
	Total	45			100				140

Date of the last approval by department council: 6-3-2023
Head of the department signature:



نموذج رقم (١١)

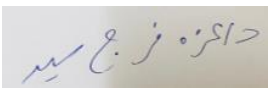
جامعة/أكاديمية : المنيا كلية / معهد: الطب قسم: الأمراض الصدرية	مسمى المقرر	Chest Diseases and Tuberculosis
	كود المقرر	CH 200

Annex (1): Matrix of Coverage of Course ILOs By Contents

Topic	Knowledge and understanding	Intellectual Skills	Professional & Practical Skills	General skills
Structure of respiratory system	A1,A2	-	-	-
Function of respiratory system	A1,A2	B1-B7	C1,C2	D1-D4
Diagnostic approach to symptoms	A1,A2	B1-B7	C1,C2	D1-D4
Diagnostic Procedures, Part I	A11, A12, A13	B1-B7	C1,C2	D1-D4
Diagnostic Procedures, Part II	A11, A12, A13	B1-B7	C1,C2	D1-D4
General principles of treatments in chest diseases	A1, A10	B1-B7	C1,C2	D1-D4
Radiographic evaluation of the chest.	A3	B1-B7	C1,C2	D1-D4
Respiratory emergencies	A6	B1-B7	C1,C2,C3	D1-D4
Airway diseases, Part I	A6	B1-B7	C1-C3	D1-D4
Airway diseases, Part II	A6	B1-B7	C1-C3	D1-D4
Respiratory Infections, Part I	A4,A5,A6,A7	B1-B7	C1-C3	D1-D4
Respiratory Infections, Part II	A4,A5,A6,A7	B1-B7	C1-C3	D1-D4
Mycobacterial Diseases (TB), Part I	A4,A5,A6,A7	B1-B7	C1-C3	
Mycobacterial Diseases (TB), Part II	A4,A5A6,A7	B1-B7	C1-C3	D1-D4
COVID-19	A4,A5,A6,A7	B1-B7	C1-C3	D1-D4
Thoracic Tumors, Part I	A4,A5,A6,A7	B1-B7	C1-C3	D1-D4
Thoracic Tumors, Part II	A1,A2	B1-B7	C1-C3	D1-D4
Diffuse parenchymal lung diseases (Non-fibrotic)	A1,A2, A4,A5,A6,A7	B1-B7	C1-C3	D1-D4
Diffuse parenchymal lung diseases (fibrotic)	A1-A6	B1-B7	C1-C3	D1-D4
Occupational Diseases	A4 to A7	B1-B7	C1-C3	D1-D4
Drug induced lung diseases	A4 to A7	B1-B7	C1-C3	D1-D4
Sleep Disorders	A1, A4, A5, A6, A7, A9	B1-B7	C1-C3	D1-D4
Respiratory failure	A1 to A6	B1-B7	C1-C3	D1-D4
Pulmonary vascular diseases, part I	A4,A5,A6,A7	B1-B7	C1-C3	D1-D4

Pulmonary vascular diseases, part II	A4,A5,A6,A7	B1-B7	C1-C3	D1-D4
Diseases of chest wall and muscles	A1, A4,A5,A6,A7	B1-B7	C1-C3	D1-D4
Pleural diseases, part I	A4,A5,A6,A7	B1-B7	C1-C3	D1-D4
Pleural diseases, part II	A4,A5,A6,A7	B1-B7	C1-C3	D1-D4
Mediastinal diseases	A1, A4,A5,A6,A7	B1-B7	C1-C3	D1-D4
Pulmonary diseases in systemic disorders	A1, A4,A5,A6,A7	B1-B7	C1-C3	D1-D4
Genetic Diseases	A4 to A7	B1-B7	C1-C3	D1-D4
Respiratory emergencies	A1, A4,A5,A6,A7	B1-B7	C1-C3	D1-D4
Pulmonary diseases in immunocompromised	A1, A4,A5,A6,A7	B1-B7	C1-C3	D1-D4
Connective tissue diseases and lung	A1, A4,A5,A6,A7	B1-B7	C1-C3	D1-D4
Cor pulmonale	A4 to A7	B1-B7	C1-C3	D1-D4
Drug and toxin induced lung disease	A4 to A7	B1-B7	C1-C3	D1-D4
Oxygen therapy	A2,A4 to A8	B1-B7	C1-C3	D1-D4
Non – Invasive ventilation	A2 to A8	B1-B7	C4	D1-D4
Airway management	A1, A4,A5,A6,A7	B1-B7	C1-C3	D1-D4
Basics and setting of IMV	A4 to A7	B1-B7	C1-C3	D1-D4
Modes , Monitoring of IMV	A2, A8	B1-B7	C1-C3	D1-D4
Weaning of IMV	A1-A8	B1-B7	C1-C3	D1-D4
Troubleshooting of IMV	A1-A8	B1-B7	C1-C3	D1-D4
IMV in special diseases	A1-A8	B1-B7	C1-C3	D1-D4

Date of the last approval by department council: 6-3-2023
Head of the department signature:



Annex (2): Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

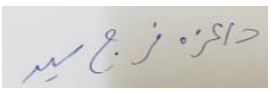
Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1—A13	B1—B8		
Clinical			C1—C4	
Presentation				D1—D4
Journal club				D1—D4
Thesis discussion				D1—D4
Training courses & workshops				D1—D4
Seminar				D1—D4

Date of the last approval by department council: 6-3-2023
Head of the department signature:

Annex (3): Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	A1-A13	B1-B8		
Clinical exam			C1-C4	
Oral Exam	A1-A13	B1-B8		D1-D4
Assignments				D1-D4
Other: group discussion, seminars, presentations,				D1-D4

Date of the last approval by department council: 6-3-2023
Head of the department signature:



نموذج رقم (١٢)

جامعة/أكاديمية : المنيا كلية / معهد: الطب قسم: الأمراض الصدرية	مسمى المقرر	Anatomy and Embryology
	كود المقرر	CH 200

Course Specifications of Anatomy and Embryology for master's degree in chest

University: Minia University

Faculty: Faculty of Medicine

Department: Anatomy and Embryology

1. Course Information	
• **Academic Year/level:** first part	• **Code: CH200**
• **Course Title:**	• Course Specifications of Human Anatomy and Embryology in master's degree in **chest.**
• **Number of teaching hours: total of 34 hours** - **Lectures:** Total of 26 hours - **Practical/clinical**: Total of 8 hours	
2. Overall Aims of the course	*By the end of the course the student must be able to:* have the professional knowledge anatomy and embryology of **chest and related body system**s.
3. Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***	
A- Knowledge and understanding	A1. Define the normal structure and function of the respiratory system on the macro levels. A2. State the early embryo development & normal growth and development of the respiratory system. A3. List the recent advances in the abnormal structure, function, growth and development of respiratory system. A4. Illustrate the anatomical facts based on embryological development. A5. Explain the anatomical basis of surface anatomy. A6. Identify the anatomical basis by using imaging techniques: MRI and CT.
B- Intellectual Skills	B1. Integrate knowledge and deal with complex subjects for Professional problem solving. B2. Conduct research study and / or write a scientific study on a research problem. B3. Diagnosis of diseases based on anatomical disruptions. B4. Demonstrate different anatomical subjects in a limited time.

	B5. Establish goals to improve performance in the field of anatomy of t chest.
C- Professional and Practical Skills	C1. Master the basic and modern medical skills in the area of internal medicine. C2. Description of diseases and anomalies based on anatomical data. C3. Evaluate and write scientific anatomical research.
D- General and transferable Skills	D1. Communicate effectively by all types of effective communication. D2. Use information technology to serve the development of professional practice. D3. Assess the candidate himself and identify personal learning needs. D4. Use different sources to obtain information and knowledge. D5. Assess the performance of others. D6. Work in a team and team's leadership in various professional contexts.

4. Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week
Anatomy of thorax (lung & pleura)	4	2	6
Anatomy of the mediastinum	4	2	6
Anatomy and development of diaphragm	1	0	2
Anatomy of chest wall.	1	1	2
Development of the respiratory system.	2	0	2
Respiratory movements	1	0	1
Lung relations and segmentation	2	1	3
Development of intraembryonic coelom.	2	0	2
Anatomy and development intercostal muscles	2	_	3
Autonomic supply and lymphatic drainage of the chest.	3	_	3
Congenital anomalies.	2	_	2
Revision	2	2	4
Total	26	8	34

5. Teaching and Learning Methods	• Lectures • Practical {skill lab, cadavers, plastinated and plastic models: instructor guided} • Presentation/seminar • Group discussion
6. Student Assessment	
A. Student Assessment Methods	1- 1- **written exam:** Problem solving: asses intellectual skills **2-** Multiple choice: assess Knowledge, understanding **paper-based exams.** **1 paper for 1st part exam** Short assay: to assess knowledge, understanding and intellectual skills Periodic quizzes: assess Knowledge, understanding and intellectual skills. **2- Practical exams (**skill lab exams): **to assess practical skills as well as intellectual skills.** **3- Oral exam: to assess understanding, intellectual skills and transferrable**.
B. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1. Final practical exam (skill lab exams Week: 20-22 Assessment 2. Final written exam (paper-based exam). Week: 22-24 Assessment 3 Final oral exam Week: 22-24
C. Weighting of Each Method of Assessment	Final written exam (paper-based exam) Examination: 12 Marks Oral Examination: 13 Marks Practical Examination; skill lab exams: 5 Total: 30 Marks
7. List of References	
A. Course Notes/handouts	Lecture notes prepared by staff members in the department.
B. Essential Books	Gray's Anatomy.
C. Recommended Text Books	A colored Atlas of Human anatomy and Embryology.
D. Periodicals, websites	American J. of Anatomy Cochrane Library,Medline & Popline

Course Coordinator/s: Dr. Sayed Fouad El- sheikh

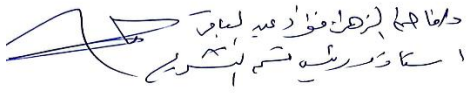
Head of Department: Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky

Date of last update & approval by department Council: 6/3/2023

Blueprint of Human Anatomy and Embryology For candidates of CHEST master's degree (First part)" Examination Paper" (12 Marks)

	Topic	Hours	Knowledge %	Intellectual %	% topic	No. of items per topic	Knowledge Mark	Intellectual Mark	Mark	Actual mark
1	Anatomy of thorax (lung& pleura)	4	67%	33%	16.7 %		1.3	0.66	2	2
2	Anatomy of mediastinum	4	75%	25%	16.7 %		1.5	0.5	2	2
3	Anatomy and development of diaphragm	1	75%	25%	4.2%		0.4	0.1	0.5	0.5
4	Anatomy of chest wall	1	75%	25%	4.2%		0.4	0.1	0.5	0.5
5	Development of the respiratory system	2	100%	_	8.3%		1	_	0.99	1
6	Respiratory movements	1	75%	25%	4.2%		0.4	0.1	0.5	0.5
7	Lung relations and segmentation	2	80%	20%	8.3%		0.75	0.25	0.99	1
8	Development of intraembryonic coelom	2	100%	_	8.3%		1	_	0.99	1
9	Anatomy and development intercostal muscles	2	75%	25%	8.3%		0.75	0.25	0.99	1
10	Autonomic supply and lymphatic drainage of the chest	3	75%	25%	12.5 %		1.125	0.375	1.5	1.5
11	Congenital anomalies	2	100%	_	8.3%		1	_	0.99	1
12	Total	24			100%		9.625	2.375	11.95	12

Head of Department: Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky



Date of last update & approval by department Council: 6/3/2023

نموذج رقم (١١)

Anatomy and embryology	مسمى المقرر	جامعة/أكاديمية : المنيا كلية / معهد: الطب قسم: الفسيولوجيا الطبية
CH 200	كود المقرر	

Annex (1): Matrix of Coverage of Course ILOs By Contents

Contents (List of course topics)	**Week No.**	**Intended Learning Outcomes (ILOs)**			
		Knowledge & understanding	**Intellectual Skills**	**Professional & Practical skills**	**General & Transferable Skills**
		A	**B**	**C**	**D**
Anatomy of thorax (lung & pleura)	1	1,2,3,4	1,2	1	1,3,5
Anatomy of the mediastinum	2	3,5,6	2	2	2,4
Anatomy and development of diaphragm	3	2,3,6	2	1,2	3,4
Anatomy of chest wall	4	1,2,3	2	1,2	3,4
Development of the respiratory system	5	2,3,4	_	1,2	3,4
Respiratory movements	6	1,3,4	1	1,2	4,5
Lung relations and segmentations	7	1,2,3,5	1	1,2	4,5
Development of intraembryonic coelom	8	2,3,4	_	1	1,2,5
Anatomy and development of intercostal muscles	9	2,3,4	2	2	2,4
Autonomic supply and lymphatic drainage of the chest	10	1,5,6	3	1,2	4,5
Congenital anomalies	11	2,5,6	_	1	1,3,5

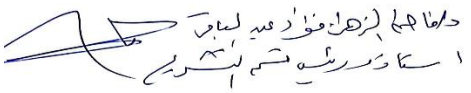
Head of Department: Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky

Date of last update & approval by department Council: 6/3/2023

Annex (2): Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	Knowledge & understanding	Intellectual Skills	Professional & Practical skills	General & Transferable Skills
	A	B	C	D
Lecture	1,2,3,4,5,6	1,2,3,4,5	_	_
Practical	_	_	1,2,3	_
Clinical (Including grand rounds)	_	_	_	_
Presentation/seminar	1,5,6	_	_	4,5
Journal club	_	_	_	_
Group discussion	1,5,6	_	1	1,3,5
Training courses & workshops	3,4	1,4	1,2	2,4
Other/s (Specify)	2,3	2,3	1	3,4

Head of Department: Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky

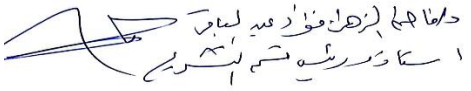


Date of last update & approval by department Council: 6/3/2023

Annex (3): Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	Knowledge & understanding	Intellectual Skills	Professional & Practical skills	General & Transferable Skills
	A	B	C	D
Written exam	1,2,3,4,5,6	1,2	_	_
Practical exam	_	_	1,2	_
Clinical exam	_	_	_	_
Oral Exam	1,2,3,4,5,6	1,2	_	4,5
Assignment	2,5,6	_	_	1,2,5
Other/s(Specify)	1,3	1,2	1	1,3,5

Head of Department: Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky



Date of last update & approval by department Council: 6/3/2023

نموذج رقم (١٢)

Public Health and Community Medicine	مسمى المقرر	جامعة/أكاديمية : المنيا كلية / معهد: الطب قسم: الأمراض الصدرية
CH 200	كود المقرر	

Course Specifications of MSc Public Health and Community Medicine

University: Minia University

Faculty: Faculty of Medicine

Department: Public Health and Community Medicine

Programme(s) on which the course is given: First part MSC in Chest

Major or minor element of programmes: Communicable diseases, Nutrition, Environmental Health, non-communicable diseases, General epidemiology and Statistics & research design.

Department offering the programme: Chest department

Department offering the course: Department of Public Health and Community Medicine

Academic year/ Level: First part of MSC of chest

A- Basic Information

Title: Master Degree in Public Health and Community Medicine

Code: CH200

Credit Hours: -------- **Lecture: 2 hours/ week**

Tutorial: ---------- **Practical:** -------- **Total:** 2 H/week

B- Professional Information

1. Overall aims of course

a. Prepare a community-oriented physician capable of anticipating and responding tocommunity health needs according to the policies, regulations, and guidelines of the MOHP.
b. To use precisely the research methodology in researches.
c. Inform public policy, disseminate health information, and increase awareness of public health concerns through disease surveillance, needs assessment, and program evaluation.

3.Intended learning outcomes of course (ILOs): *Upon completion of the course, the student should be able to:*	
A- **Knowledge and Understanding**	Al. Illustrate a knowledge base in, communicable and non-communicable diseases epidemiology, and environmental health. A2 Describe epidemiology of COVID-19 virus and identify Strategies to Reduce Spread of Covid-19 A3 Describe methods of sampling strategies and sample size calculation A4 Recognize the basics of infection control measures, and their role in

	disease prevention A5 Describe nutritional needs to all age groups e.g. Children, pregnant and lactating mothers and old age group. A6Identify environmental health hazards
B-Intellectual Skills	B1- Criticize prevention and control programs of diseases B2 Reframe the community toward evidence based medicine , how to protect from diseases and environmental hazards
C-Professional and Practical Skills	C3 Demonstrate trends in health and disease including epidemiological causes of high prevalence of certain infections, causes of eradication, emerging or reemerging previous infections worldwide and in Egypt C4 Use appropriate health promotion, disease prevention and control measures to identified priority communicable diseases and under specific situations
D-General and transferable Skills	D1Evaluate indicators of health and disease D2 Identify prevalent health problems in a community, using various epidemiological strategies D3 Collect and verify data from different sources D4 Organize and manage data, including graphic and tabular presentations D5 Analyze and interpret data D6 Anticipate and participate in investigation of an epidemic/outbreak as part of a health team D7 Apply appropriate health promotion, disease prevention, and control measures D8 Apply disease prevention and control measures to identified priority communicable and non-communicable diseases D9 Participate in conducting public health surveillance.

2- Course Contents

Clinical department	Topic	No. Of hours	
		Theoretical	Practical
Tropical Medicine	Communicable diseases	2	2
	Nutrition	2	2
	Environmental Health , occupational lung disease	2	2
	General epidemiology	2	2
	Statistics & research design	2	2

3- Teaching and learning methods

4.1- Lectures

4- Student assessment methods

5.1 Writing Exam

5.2 Oral Exam

5.3 Practical exam (to some specialities)

Weighting of assessments

- Oral examination: 60 % (36 marks)
- Writing examination 40 % (24 marks)
- Total 100 %

5- List of references

6.1- Course notes: Department Books, and notes.

Logbook

6.2- Essential books (text books)

Maxcy Rosenau Public Health and Preventive M12th edition, john m. Last, (editor), Appleton Centurycrofts/Norwalk, Connecticut.USA

6.3- Periodicals:

- American Journal of Epidemiology
- International Journal of Epidemiology
- International Journal of Public Health
- Egyptian Journal of Community Medicine

6.4-Web Sites: www.cdc.gov

www.who.gov

7- Facilities required for teaching and learning

Public Health and Community Medicine skill laboratory equipped with skill tools.

Class rooms for theoretical lectures and tutorials.

Program Coordinators: Dr Shimaa Mahmoud Dr Chrestina Monir

Head of Department: Prof Dr Nashwa Nabil

Date of program specifications 1st approval by department council: 13/5/2013.
Date of last update & approval by department council: 6/3/ 2023

Test blueprint for pharmacology for 1st part master Chest Diseases and Tuberculosis

Topic	Hour	% of topic	Total No. of items	Written exam		Marks
				Knowledge	Intellectual	
General epidemiology	2	20%	5	3	2	5
Environmental health	2	20%	5	3	2	5
Communicable diseases	2	20%	5	3	2	5
Medical Statistics	2	20%	5	3	2	5
Nutrition	2	20%	4	2	2	4
Total	10		15			24

Head of Department: Prof Dr Nashwa Nabil

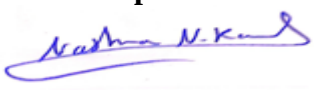
Date of program specifications 1st approval by department council: 13/5/2013.
Date of last update & approval by department council: 6/3/ 2023

A. Matrix of Coverage of Course ILOs By Contents

Contents (List of course topics)	Week No.	Intended Learning Outcomes (ILOs)			
		Knowledge & understanding	Intellectual Skills	Professional & Practical skills	General & Transferable Skills
		A	B	C	D
General Epidemiology -Determinants of health and diseases -Prevention and control -Investigations of outbreak -Surveillance -Emerging diseases -Neglected tropical diseases	4	A1	B1		D1 to D9
Environmental health: -Environmental Health hazards. -Water and waste management -Food safety. -Physical hazards -Infection control measures	4	A6	B2	C3,C4	D1 to D9
Epidemiology of communicable diseases: (6 per week) 3.Determiniats of health and diseses 4.Prevention and control 5.Emerging diseases 6.Neglected tropical diseases 7.Zonotic diseases 8.Arthropod born infections 9.Droplet infection 10.Blood born infection 11.sexual transmitted infections	4	A4,A2	B1	C3,C4	
Medical statistics -Sampling & normal distribution curves -Measures of central tendency & deviatio -Data presentation & tests of significance -Introduction to research, research terminology -Study design , different types of study	4	A1	B1		D1 to D9
Nutrition (4 per week) - Introduction and nutrition: Functions of food and nutrition in relation to human beings Definition of food, nutrition, calories Planning balance diet Measurement of energy - Nutritional Elements - Nutrition throughout the life cycle: Nutritional requirements in infancy, preschool age, school age, adolescence, adult, pregnancy, lactation and geriatric nutrition. - Nutritional assessment - Malnutrition diseases - Dietetics	4	A5			D1 to D9

Program Coordinators: Dr Shimaa Mahmoud Dr Chrestina Monir

Head of Department: Prof Dr Nashwa Nabil



Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1,A2,A3,A4,A5,A 6	B1,B2,		
Practical			C3,C4,	
Assignment				From D1 to D9

Program Coordinators: Dr Shimaa Mahmoud Dr Chrestina Monir

Head of Department: Prof Dr Nashwa Nabil

Date of program specifications 1st approval by department council: 13/5/2013.

Date of last update & approval by department council: 6/3/ 2023

Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	Knowledge & Understanding	Intellectual Skills	Professional & Practical skills	General & Transferable Skills
	A	B	C	D
Written exam	A1, A2, A3, A4, A5.A6	B1,B2,B3,B4		
Practical exam			B1, B4, B3	
Oral Exam	A1	B1, B4, B3		D1 to D9

Head of Department: Prof Dr Nashwa Nabil

Date of program specifications 1st approval by department council: 13/5/2013.
Date of last update & approval by department council: 6/3/ 2023

نموذج رقم (١٢)

جامعة/أكاديمية : المنيا كلية / معهد: الطب قسم: الأمراض الصدرية	مسمى المقرر	Pharmacology
	كود المقرر	CH 200

Course Specifications of pharmacology for MSc Chest Diseases and tuberculosis (first part)

University: Minia University

Faculty: Faculty of Medicine

Department: Pharmacology

Last date of approval: 6/3/2023

1- Basic Information		
Academic Year/level: First Part of Master Degree	**Course Title**: First Part of Master Degree in Chest Diseases and Tuberculosis	**Code**: CH200
Number of teaching hours: **Lectures:** 28 hours; 1 Hours/week **Practical:** 0		
2- Overall Aims of the course	***By the end of the course the student must be able to:*** 1. Provide the postgraduate student with the medical Knowledge and skills essential for the practice of specialty and necessary to gain. 2-To understand all molecular basics and diseases. 3-To detect different molecular techniques and their advanced applications. 4-To better understand and use the research tools including internet and different laboratory equipment. 5-To know retrieving the literature and understanding the evidence-based medicine 6-Maintain learning abilities necessary for continuous medical education. 7-Maintain research interest and abilities.	
3- Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***		
A. Knowledge and Understanding	A1. Mension the basic biochemical and physiological activities, their disturbances and how to be corrected. A.2 Define general pharmacokinetics as well specific properties of different groups of drugs putting into consideration age, sex and genetic-related variations that affect the response to drugs (pharmacogenetics). A.3 Recall general pharmacodynamics as well specific properties of different groups of drugs that include the drug's mechanism of action and pharmacological effects.	

	A.4 List pharmacotherapeutics which reflects the role of drugs in prevention, diagnosis and treatment of diseases as well as prevention of conception. It includes also pathopharmacology of diseases and drugs, indications, contraindications, adverse reactions and drug interactions especially in high risk groups (extremes of age, pregnancy and lactation, liver kidney and cardiac diseases). Pharmaco-economics is included in this category. A.5 Memorize Systemic pharmacology which includes drugs acting on different body systems such as cardiovascular, autonomic, respiratory, gastrointestinal, endocrine, blood ,……. A.6 know the basic, and ethics of scientific research. A.7. List the principles of quality in professional practice in the field of therapeutics and applied pharmacology.
B. Intellectual Skills	B.1 Make the skills in selecting and using drugs safely and efficiently knowing their limits and the potential risks B.2 Develop the ability to solve medical problems arising from use of drugs and the development of resistance or tolerance encouraging them to search for alternative approaches after revising the diagnosis. B.3 Demonstrate an investigatory and analytic thinking "problem-solving" approaches to relevant situations related to Medical Pharmacology. B.8 Design management plans and alternative decisions in different situations in the field of Pharmacology.
C. Professional and Practical Skills	By the end of the study of master program in **Pharmacology** the candidate should be able to: C.1 Practice different skills of research including how to retrieve the literature and use the different laboratory equipment such as centrifuge, homogenizer, spectrophotometer and Ph meter. C.2 Evaluate the need of his/her career to join the major advances in drug information C.3 Perform the basic lab skills essential to the course. C.4 Prepare plans for performing experiments related to pharmacology.
D. General and transferable Skills	After completing the course, the student should be able to D1- Perform practice-based improvement activities using a systemic methodology (share in audits and risk management activities and use logbooks). D3- Collect and verify data from different sources. D4- Analyze and interpret data. D5-Appraise evidence from scientific studies. D6- Use information technology to manage information, access on-line medical researches to support his/her own education.

4- Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours/week
Pharmacokinetic variables	3	-	3
Autonomic Pharmacology	3	-	3
Drug interaction and adverse drug reaction	2	-	2
Pharmacology of the cardiovascular system and Diuretics	3	-	3
Drugs affecting blood diseases	2	-	2
Corticosteroids	1	-	1
Nonsteroidal anti-inflammatory drug	2	-	2
Sedative hypnotic drugs	2	-	2
Chemotherapy	6	-	6
Pharmacology of the respiratory tract	2	-	2
Opioids	2		2
Total	28		28

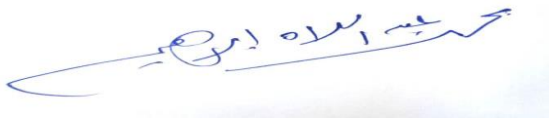
5-Teaching and Learning Methods	1-Lectures & discussions. 2-Assignments 3-Attending and participating in scientific conferences and workshops to acquire the general and transferable skills needed
6-Teaching and Learning Methods for students with limited Capacity	Additional lectures, adjusting time and place of lectures according to their schedule and capacity

7- Student Assessment

A-Student Assessment Methods	**1- Written exam** to assess the capability of the student for assimilation and application of the knowledge included in the course. **2-Oral exam** to assess the student intellectual and communication skills regarding basic knowledge and understanding of the course topics, and to help the teaching staff to evaluate the % of achievement of the intended learning outcomes of the course

	3- Practical exam to assess the student's ability to identify different methods of identification of different drug actions and interactions.
B-Assessment Schedule (Timing of Each Method of Assessment)	***Assessment 1: one written exam*** *by the end of the course* **Assessment 2: *Oral exam,*** *after the written exam* **Assessment 3: *Practical exam***
8-Weighting of Each Method of Assessment	**Written examination:** 8 marks 40% **Oral and practical examination:** 12 marks 60% **Total:** 20 marks 100%
9- List of References	
A. Course Notes/handouts	Lecture notes prepared by the staff members in the department.
B. Essential Books	- Principles of pharmacology the pathophysiologic basis of drug therapy
C. Recommended Text Books	- Goodman & Gilman - Katzung
D. Periodicals, websites	- Pharmacological Reviews - Journal of Pharmacology and Experimental therapeutics - British journal of pharmacology - European journal of pharmacology - Pharmacological research **http://www.ncbi.nlm.nih.gov/pubmed/**

Course Coordinator/s: Ass. Prof. Dr. Seham Abdelwakeel
Head of Department: Professor Dr. Mohamed Abdellah Ibrahim

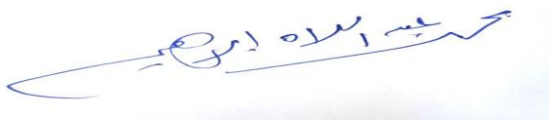


Date of last update & approval by department Council: 6 /3/ 2023

Blueprint of Chest MSC (Pharmacology Examination Paper): 8 Mark

	Topics	Hours	Knowledge %	Intellectual %	% of topics	Mark	Actual mark
1	Pharmacokinetic variables	3	100	0	10.7	0.85	0.5
2	Autonomic Pharmacology	3	70	30	10.7	0.85	1
3	Drug interaction and adverse drug reaction	2	70	30	7.14	0.57	0.5
4	Pharmacology of the cardiovascular system and Diuretics	3	70	30	10.7	0.85	1
5	Drugs affecting blood diseases	2	70	30	7.14	0.57	0.5
6	Corticosteroids	1	80	20	3.57	0.28	0.5
7	Nonsteroidal anti-inflammatory drug	2	70	30	7.14	0.57	0.5
8	Sedative hypnotic drugs	2	80	20	7.14	0.57	0.5
9	Chemotherapy	6	60	40	18.75	1.5	1.5
10	Pharmacology of the respiratory tract	2	75	25	7.14	0.57	1
11	Opioids	2	75	25	7.14	0.57	0.5
Total		**28**			**100%**		**8**

Course Coordinator/s: Ass. Prof. Dr. Seham Abdelwakeel
Head of Department: Professor Dr. Mohamed Abdellah Ibrahim



Date of last update & approval by department Council: 6 /3/ 2023

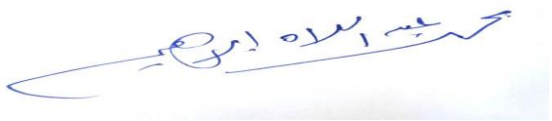
نموذج رقم (١١)

Chest Diseases and Tuberculosis	مسمى المقرر	جامعة/أكاديمية : المنيا كلية / معهد: الطب قسم: الأمراض الصدرية
CH 200	كود المقرر	

Annex (1): Matrix of Coverage of Course ILOs By Contents

Topic	Knowledge and understanding	Intellectual Skills	Professional & Practical Skills	General skills
Pharmacokinetic variables			+	+
Autonomic Pharmacology		+	+	+
Drug interaction and adverse drug reaction		+	+	+
Pharmacology of the cardiovascular system and Diuretics		+	+	+
Drugs affecting blood diseases			+	+
Corticosteroids		+	+	+
Nonsteroidal anti-inflammatory drug		+	+	+
Sedative hypnotic drugs	+	+	+	+
Chemotherapy	+	+	+	+
Pharmacology of the respiratory tract	+	+	+	+
Opioids	+	+	+	+

Course Coordinator/s: Ass. Prof. Dr. Seham Abdelwakeel
Head of Department: Professor Dr. Mohamed Abdellah Ibrahim

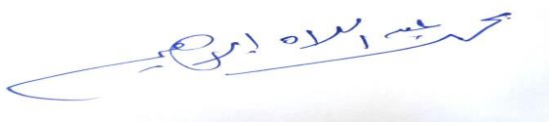


Date of <u>last update</u> & approval by department Council: 6/3/ 2023

Annex (2): Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	X	x		
Practical				
Presentation/seminar	X	x	x	
Journal club				
Thesis discussion	X	x		
Training courses & workshops				

Head of Department: Professor Dr. Mohamed Abdellah Ibrahim

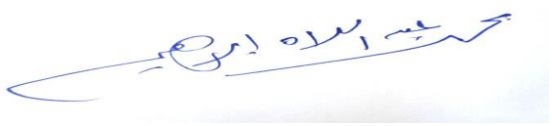


Date of last update & approval by department Council: 6 /3/ 2023

Annex (3): Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	x	x		
Oral Exam	x	x	x	X
Practical exam	x	x	x	

Head of Department: Professor Dr. Mohamed Abdellah Ibrahim



Date of last update & approval by department Council: 6 /3/ 2023

نموذج رقم (١٢)

جامعة/أكاديمية : المنيا كلية / معهد: الطب قسم: البثولوجي	مسمى المقرر	Pathology
	كود المقرر	CH 200

Course Specification of Pathology for MSc degree of Chest Diseases and Tuberculosis (2022-2023)

A. Basic Information

University: Minia University

Faculty: Faculty of Medicine

Program on which the course is given: Master Degree in Chest Diseases and Tuberculos**is**

Major or minor element of program: pathology

Department offering the program: Chest Diseases

Department offering the course: Pathology Department

Academic year / Level: First part Master

Date of specification approval: Last date of approval: 12/3/2023

Course Title: Course Specification of Pathology (Master degree of Chest Diseases and Tuberculosis)

Code: CH200

Number of teaching hours:

- Lectures: Total of 24 hours; 1 hour/week
- Practical/clinical: Total of 24 hour; 1 hour/week

Professional Information

1. Overall Aims of the course

1. Explain theories, basics & recent advances in the field of pathology.

2. Appraise & interpret relevant basic information and correlate them with essential clinical data to reach a final diagnosis.

3. Plan for the development of acquisition of skills of basic & modern pathological laboratory techniques as well as principals of surgical pathology.

4. Demonstrate competency on dealing with various biopsies and reporting pathological features and correlate such information with the relevant provided clinical data.

5. Learn the basics of essential techniques and follow issues related to maintenance of safety and maintenance of available resources.

6. Communicate efficiently with senior staff, colleagues, lab technical staff, other health care professionals, students and patients.

7. Use efficiently the information technology including data entry & analysis to enhance data management and to achieve improvement of the professional practice

8. Manage time efficiently and learn to priorities tasks.

9. Show the skills of continuous & self-learning.

2. **Intended learning outcomes of course (ILOs):** *Upon completion of the course, the student should be able to:*

A. Knowledge and Understanding

A1: Identify the basics of general pathological features of inflammation, cell injury & cell death

A2: Describe in details granuloma pathogenesis, types and pathology.

A3: Recognize different forms of circulatory disturbances and their underlying pathogenesis

A4: Recognize in depth the pathology of amyloidosis

A5: Demonstrate different aspects of infections as toxaemia, bacteraemia, septicaemia and pyaemia and pathological features of bacterial, viral, mycotic and parasitic diseases.

A6: Differentiate different patterns of cellular adaptation as atrophy, hypertrophy, metaplasia and dysplasia and recognize the growth disturbances as hamartomas and differentiate detween benign and malignant tumors as well as steps of carcinogenesis.

A7: Understand different environmental diseases as tobacco smoking, alcohol consumption, occupational diseases, and exposure to irradiation, nutritional disorders and obesity.

A8: Identify the basics of cytopathology, immunohistochemistry and molecular diagnostic technique.

A9: Identify principles and concepts of quality in laboratory processing including dissection, technical defects in the slides and how to be corrected, and staining techniques.

A10: Define and discuss the main disease categories that may affect the chest as well as the basic mechanisms underlying these diseases (etiology, pathogenesis and natural history).

A11: Determine the morphologic changes, prognosis, basic treatment principles and prevention particularly for diseases of national importance occur as a result of such disease processes.

B. Intellectual Skills

B1 Correlate & evaluate the gross and microscopic features of surgical specimens with available clinical data to provide a list of differential diagnosis for further advanced investigations to reach the correct diagnosis.

B2 Evaluate and control efficiently potential risks that may arise during the professional practice in various clinical situations like handling and processing of specimens as well as during performing different essential laboratory techniques

C. Professional and Practical Skills

C1 Demonstrate competency on dealing with and reporting gross features of different surgical specimens in view of adopted standards as well as quality & safety procedures.

C2 C2. Practice efficiently basic and modern laboratory techniques that include histochemical, immunohistochemical and other principal procedures such as tissue preservation, block sectioning, preparation of essential stains till handling of devices and microscopic examination, with emphasis on keeping the available resources.

C3 C3. Counsel expertise in the lab regarding the basics of essential techniques and issues related to maintain safety and available resources.

D. General and transferable Skills

D1 Demonstrate efficient communication & interpersonal skills in all its forms and in different situations that may involve senior staff, colleagues, students, lab technical staff, other health care professionals, and patients

D2 Use efficiently the information technology and select reliable sources of information to get essential information and updates regarding the different topics and techniques in surgical pathology.

D3 Develop skills of self-evaluation and identify personal learning needs to plan for self-development and continuous medical education

D4 Demonstrate the skills of effective time management.

3. Course Contents

TOPIC	Lecture Hours	Practical Hours	Total hours
1. General pathology			
Inflammation	1	1	2
Cell injury and cell death	-	1	1
Granulomas	1	2	3
Circulatory disturbances	1	1	2
Amyloidosis	1	1	2
Acute bacterial infection viral infection, mycotic diseases, parasitic infestation	1	-	1
Disturbances of cell growth and adaptation	1	-	1
Neoplasia	1	2	3
Environmental and nutritional diseases & ionizing radiation	1	-	1
Routine and special techniques in surgical pathology and the related safety & quality measures.	1	1	2
Handling of surgical specimens and the related safety & quality measures.	1	1	2
2. Diseases of respiratory system	9	9	18
3. Diseases of heart.	4	1	5
Total	24	20	44 hr.

1. Teaching and Learning Methods:

A- Straight lectures; power point presentations
B- Brain storming with the students
C- Questions and Answers

2. Teaching and learning methods to students with limited capacity: Not applicable

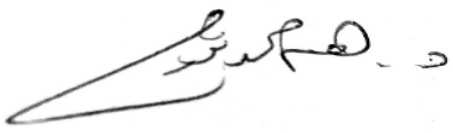
3. Student assessment

(A)- Student assessment methods	**Attendance criteria**: by faculty regulations (Activity logbook) **Assessment Tools:** {I}- Final Written exam: A- Short essay to assess knowledge and understanding B- Problem solving to assess intellectual skills C- MCQ to assess knowledge and intellectual skills {II}- Oral exam; to assess knowledge, understanding, intellectual skills, attitude, and communication.
(B)- Assessment schedule	1- Final Written exam 2- Oral exam
(C)- Weighting of assessment	1- Final Written exam 40 % (8 Marks) 2- Oral exam 60 % (12 Marks) Total 100% (20 Marks)

1. List of References

(A)- Course Notes/handouts	Lectures handouts by staff members. Log Book.
(B)-Essential Books (textbooks)	Goldblum, John R., et al. Rosai and Ackerman's Surgical Pathology E-Book. Elsevier Health Sciences (2017). Kumar, V., Abbas, A. K., & Aster, J. C. Robbins basic pathology e-book. Elsevier Health Sciences (2017).
(C)-Recommended Books	Liang Jing & David Bostwick. Essentials of anatomic pathology (2011). Diana W Molavi. The practice of surgical pathology; A beginner's guide to the diagnostic process (2008).
(D)-Periodicals	American Journal of pathology The Journal of pathology Diagnostic Histopathology Cancer
(E)-Web sites	www.pubmed.com www.pathmax.com
Facilities required for teaching and learning	Classrooms for theoretical lectures and tutorials

Course Coordinator: Assistant Prof. Dr. Alzahraa Ibrahim Khalil
Head of Department: Professor Heba Tawfeek



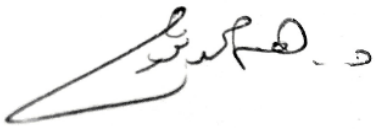
Date of last update & approval by department Council: 6 / 3 / 2023

Blueprint of pathology for 1st part of Master degree of Chest Department

Topic	Hours	Knowledge %	Intellectual%	% of topic	Mark	Actual mark
(A)- General pathology	**11 hours**	**75%**	**25%**	**45.8 %**	**3.7**	**4**
Inflammation						
Cell injury and cell death						
Granulomas						
Circulatory disturbances						
Amyloidosis						
Acute bacterial infection viral infection, mycotic diseases, parasitic infestation						
Disturbances of cell growth and adaptation						
Neoplasia						
Environmental and nutritional diseases & ionizing radiation						
Routine and special techniques in surgical pathology and the related safety & quality measures.						
Handling of surgical specimens and the related safety & quality measures.						
2. Diseases of respiratory system	**9**	**75 %**	**25 %**	**37.5 %**	**3**	**3**
3. Diseases of heart.	**4**	**70 %**	**30 %**	**16.7 %**	**1.3**	**1**
Total	**24**			**100 %**	**8**	**8**

Date of the last approval by department council: 12-3-2023

Head of the department signature:



نموذج رقم (١١)

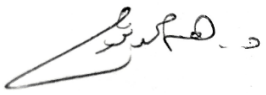
Pathology	مسمى المقرر	جامعة/أكاديمية : المنيا كلية / معهد: الطب قسم:
CH 100	كود المقرر	

Annex (1): The matrix of coverage of course ILOs by contents

Contents	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
(A)- General pathology	**A1,2,3,4,5,6,7, 8,9**	**B 1, 2**	**C 1, 2,3**	**D 1, 2**
Inflammation				
Cell injury and cell death				
Granulomas				
Circulatory disturbances				
Amyloidosis				
Acute bacterial infection viral infection, mycotic diseases, parasitic infestation				
Disturbances of cell growth and adaptation				
Neoplasia				
Environmental and nutritional diseases & ionizing radiation				
Routine and special techniques in surgical pathology and the related safety & quality measures.				
Handling of surgical specimens and the related safety & quality measures.				
2. Diseases of respiratory system	**A12, 13**	**B1,2**	**C 1, 2,3**	**D 1, 2**
3. Diseases of heart.	**A12,13**	**B1,2**		**D1**

Date of the last approval by department council: 12-3-2023

Head of the department signature:

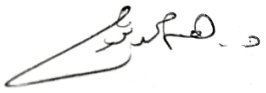


Annex (2): Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Methods of teaching & learning	Intended learning outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
Lecture	✓	✓	**NA**	**NA**
Practical	**NA**	**NA**	✓	**NA**
Presentation/seminar	**NA**	**NA**	✓	✓
Journal club	✓	✓	**NA**	✓
Training courses & workshops	✓	✓	✓	✓

Date of the last approval by department council: 12-3-2023

Head of the department signature:

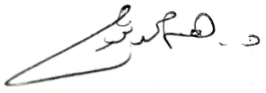


Annex (3): Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended learning outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
Written exam	✓	✓	**NA**	**NA**
Practical exam	**NA**	**NA**	✓	**NA**
Oral Exam	✓	✓	**NA**	✓
Assignment	**NA**	**NA**	**NA**	✓
Structured oral exams	**NA**	**NA**	**NA**	**NA**

Date of the last approval by department council: 12-3-2023

Head of the department signature:



نموذج رقم (١٢)

جامعة/أكاديمية : المنيا كلية / معهد: الطب قسم: الفسيولوجيا الطبية	مسمى المقرر	Medical physiology
	كود المقرر	CH 200

Course Specifications of Medical Physiology
For 1st Part Master Degree in Chest Diseases and Tuberculosis
2022-2023

A. Basic Information

University: Minia University

Faculty offering the program: Faculty of Medicine.

Department offering the course: Medical Physiology Department.

Program(s), on which the course in given: Master Degree in Chest Diseases and Tuberculosis.

Major or minor element of program(s): Medical Physiology.

Academic year/level: 1st part Master degree in Chest Diseases and Tuberculosis.

Date of last update & approval: 6/3/2023

Title: Physiology course specifications for 1st part Master degree of chest diseases and tuberculosis

Code: CH200

Credit Hours: Not applicable

Lectures: 1.5 hours / week

Tutorial/Practical: Not applicable

B. Professional information

1) OVERALL AIM OF COURSE:

The aim of the course are to provide the postgraduate students with knowledge about the physiological principles underlying CHEST diseases that aid in interpretation of symptoms, investigations and management.

2) INTENDED LEARNING OUTCOMES OF COURSE (ILOS)

A. Knowledge and Understanding: *By the end of the course, the student should be able to:*

A1. Describe the Physiology of Blood;

1.1. General composition & functions of blood components.

1.2. Erythropoiesis & anemia.

1.3. WBCs & Blood defense.

1.4. Blood platelets, Hemostasis & common disorders.

A2. Discuss the Physiology of Autonomic Nervous System (ANS);

2.1. Distribution; function and common disorders of ANS.

2.2. Chemical transmission in ANS.

A3. Describe the Physiology of Central Nervous System (CNS);

3.1. Physiology of Pain (definition, types, effects & control).

A4. Discuss the Physiology of Cardiovascular System (CVS);

4.1. Arterial blood pressure (APB); Hemorrhage & Shock.

A5. Recognize the Physiological basis of Metabolism;

5.1 Body temperature regulation & fever.

A6. Recognize the Physiology of Renal System:

6.1. Functions of PCTs & DCTs.

6.2. Acid-base balance.

A7. Discuss in details the Physiology of Respiratory System (Special topics);

7.1. General structure & functions of respiratory system

7.2. Mechanism of normal breathing (eupnea).

7.3. Peripheral mechanism of respiration & Lung surfactant

7.4. Pulmonary ventilation; perfusion & gas exchange

7.5. Blood gas transport (O2 & CO2); Hypoxia & Cyanosis

7.6. Central mechanism & control of respiration

7.7. Ventilatory response to changes in blood gases

7.8. Pulmonary function tests.

7.9. Clinical disorders related to respiratory system.

B. Intellectual Skills: *By the end of the course, the student should be able to:*

B1. Develop the skills for demonstrating different functions of the body systems related to general surgery to diagnose deviation from normality as detected disease state.

B2. Assess the problems associated with different factors, which affect the normal function of different body systems related to respiratory system.

C. Practical Skills:

Practical hours: not available

D. General and Transferable Skills: *By the end of the course, the student should be able to:*

D1. Adopt the principles of lifelong learning.

D2. Prepare and present clearly and effectively a scientific topic in a tutorial, a staff meeting or the yearly scientific day.

D3. Work efficiently within a team, honor and respect his colleagues.

3) Curriculum structure & contents:

Topic:	No. of Lectures	Total no. of hours
1. Physiology of Blood: ● General composition & functions of blood components. ● Erythropoiesis & anaemia. ● WBCs & Blood defence. ● Blood platelets, Haemostasis & common disorders.	**2**	**3**
2. Physiology of ANS: ● Distribution; function and common disorders of ANS. ● Chemical transmission in ANS.	**2**	**3**
3. Physiology of Central Nervous System (CNS): ● Physiology of Pain; definition, types, effects & control.	**3**	**4.5**
4. Physiology of Cardiovascular System (CVS): ● Arterial blood pressure (APB); Haemorrhage & Shock.	**2**	**3**
5. Physiological basis of Metabolism: ● Body temperature regulation & fever.	**1**	**1.5**
6. Physiology of Renal system: ● Functions of PCTs & DCTs. ● Acid-base balance.	**2**	**3**
7. Physiology of Respiratory system (Special topics): ● General structure & functions of respiratory system ● Mechanism of normal breathing (eupnoea). ● Peripheral mechanism of respiration & Lung surfactant ● Pulmonary ventilation; perfusion & gas exchange ● Blood gas transport (O_2 & CO_2); Hypoxia & Cyanosis ● Central mechanism & control of respiration ● Ventilatory response to changes in blood gases ● Pulmonary function tests. ● Clinical disorders related to respiratory system.	**12**	**18**
Total	**24**	**36**

4) TEACHING AND LEARNING METHODS:

1. Lectures (2hr/wk.) throughout the academic year interchangeable with recorded lectures.
2. Self-learning activities such as use of internet and multimedia.

5) STUDENT ASSESSMENT METHODS:

1. **Written exam** to assess the student's knowledge in the form of short essay questions and /or MCQs.
2. **Oral exam** to assess student's knowledge, intellectual and general skills as well as assessing the verbal communication abilities.
3. **Log book.**

Assessment Schedule:

- **Assessment 1:** Final written exam (1.5 hr.)
- **Assessment 2:** Final oral exam.

Weighting of assessment:

- **Final written exam** **40%** (15 marks)
- **Final oral exam** **60%** (20 marks)
- **Total** **100%** (35 marks)

6) LIST OF REFERENCES:

1. **Department books and notes:** Prepared by Medical Physiology Department staff members, Faculty of Medicine, Minia University.
2. **Essential books (Text Books):**
   - Ganong review of medical physiology.
   - Guyton text book of medical physiology.
3. **Periodicals, Web sites… etc.**

FACILITIES REQUIRED FOR TEACHING AND LEARNING:

1. Classrooms with data show for lectures.
2. Computers and internet facilities.

Course Coordinator,

Prof. Dr. Mariam Yahia Ibrahim

Prof. of Medical Physiology

Faculty of Medicine, Minia University

Head of Department,

Prof. Dr. Merhan Mamdouh Ragy

Prof. & Head of Medical Physiology Department

Faculty of Medicine, Minia University

Day of last update & approval by department council: 6/3/2023

Blueprint of medical physiology for 1st part of MD degree of Chest Department

Topic	Hours	Knowledge %	Intellectual %	Weight %	Total Marks	Actual Mark
ILO 1 Physiology of Blood: General composition & functions of blood components., Erythropoiesis & anaemia., WBCs & Blood defence., Blood platelets, Haemostasis & common disorders.	3	75	25	8.3	1.25	1.5
ILO 2 Physiology of ANS: Distribution; function and common disorders of ANS, Chemical transmission in ANS.	3	75	25	8.3	1.25	1
ILO 3 Physiology of Central Nervous System (CNS): Physiology of Pain; definition, types, effects & control.	4.5	75	25	12.5	1.9	2
ILO 4 Physiology of Cardiovascular System (CVS): Arterial blood pressure (APB); Haemorrhage & Shock.	3	75	25	8.3	1.25	1
ILO 5 Physiological basis of Metabolism: Body temperature regulation & fever.	1.5	75	25	4.2	.6	.5
ILO 6 Physiology of Renal system: Functions of PCTs & DCTs, Acid-base balance.	3	75	25	8.3	1.25	1.5
ILO 7 Speciality topics (Physiology of Respiratory system): ● General structure & functions of respiratory system ● Mechanism of normal breathing (eupnoea). ● Peripheral mechanism of respiration & Lung surfactant ● Pulmonary ventilation; perfusion & gas exchange ● Blood gas transport (O2 & CO2); Hypoxia & Cyanosis ● Central mechanism & control of respiration ● Ventilatory response to changes in blood gases ● Pulmonary function tests. ● Clinical disorders related to respiratory system. ● CNS; Reflex action.	18	75	25	50	7.5	7.5
Total	36			100%	15	15

Date of the last approval by department council: 6-3-2023
Head of the department signature:

Annex (2): Matrix of Coverage of course ILOs by Methods of Teaching & Learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lectures	X	X	-	X
Self-learning activities	X	X	-	X

Date of the last approval by department council: 6-3-2023
Head of the department signature:

Annex (3): Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	X	X	-	-
Oral Exam	X	X	-	X
Log Book	X	X	-	X

Date of the last approval by department council: 6-3-2023
Head of the department signature:

Date of <u>last update</u> & approval by department Council: 6 / 3 / 2023

نموذج رقم (١٢)

Medical Microbiology and Immunology	مسمى المقرر	جامعة/أكاديمية : المنيا كلية / معهد: الطب قسم: الأمراض الصدرية
CH 200	كود المقرر	

Course Specifications of Medical Microbiology and Immunology for MSc Chest Diseases and tuberculosis

1. Course Information

University: Minia University

Faculty: Faculty of Medicine

Department: Medical Microbiology and Immunology

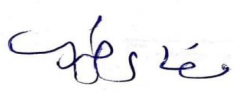
1. Course Information		
Academic Year/level: postgraduate students	**Course Title:** Medical Microbiology and Immunology for Chest postgraduate students.	**Code**: **CH200**
- **Number of teaching hours:** - **Lectures:** Total of 20 hours; 1 hours/week - **Practical**/clinical: Total of 5 hours		
1.Overall Aims of the course	By the end of the course the student must be able to: 1. Know the different types of pathogens, their structure and pathogenesis 1. Know the different methods for laboratory diagnosis and control of different infectious agents. 3. Know the different molecular microbiological techniques and their applications. 4. Know the basics of the host-parasite relationships and the role of the immune system in defending the body against different pathogens and its role in health and disease. 5. Know the principles of biosafety measures and aseptic precautions.	
3.Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***		
A-Knowledge and Understanding	A1. Know microbial morphology, structure, metabolism and physiology of medically significant microorganisms A2. Understand the basis of microbial genetics and biotechnology techniques and their applications. A3. Recognize the taxonomy and classification of different microorganisms. A4. Identify the natural habitat, source of infection and mode of transmission of the different classes of pathogens.	

	A5. Identify the different levels of host-parasite relationship and recognize the microbial virulence factors A6. Recognize the role of the immune system in the health and disease of the human being. A7. Know the causes, sources, mode of transmission and treatment of nosocomial infections and know the different methods for infection control.
B-Intellectual Skills	B1. analyze of different cases of infection to reach a final diagnosis and microbiological identification of the causative organism B1. Develop the ability to solve problems associated with different infections such as microbial resistance to antimicrobial agents, reach a final diagnosis of a certain pathological condition caused by an infectious organism.
C- Professional and Practical Skills	C1. Apply professional applications such as managing a microbiology laboratory. C2. Identify different microbes at microbiology laboratory using basic techniques C3. Apply standards of infection control C4. Apply standard protocol in collection of pathological samples
D-General and transferable Skills	D1. Manipulate microbiological samples and reach a microbiological diagnosis of an infection. D1. Write protocols for identification of a given microorganism. D3. Communicate with colleagues and patients regarding a case caused by a microorganism. D4. Work in/with different groups. D5. Manage a microbiological laboratory.

4.Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours/week
1. Introduction and collection of pathological samples		1	1
2. Cleaning, sterilization and disinfection		1	1
3. Antimicrobial chemotherapy	1	1	2
4. Bacteremia, toxemia and toxic shock	1		1
5. Fever	1		1
6. Laboratory techniques used in epidemiology		1	1
7. Basic immunology 1	1		1

8. Basic immunology 2	1		1
9. Hypersensitivity reactions	1		1
10. Mycoplasma	1		1
11. Mycobacterial infections	1		1
12. Haemophilus influenza	1		1
13. pneumococci	1		1
14. General virology	1		1
15. Viral Hepatitis	1		1
16. Human immunodeficiency	1		1
17. Covid-19	1		1
18. Influenza viruses	1		1
19. Paramyxoviruses	1		1
20. Bacterial, viral and fungal respiratory tract infections	1		1
21. Blood-transmitted diseases	1		1
22. Nosocomial infections	1		1
23. Infection control and Occupational safety	1	1	2
Total	20	5	25
5.Teaching and Learning Methods	Lectures Practical sessions Seminars		
6.Teaching and Learning Methods for students with limited Capacity	Self-learning activities such as use of internet and multimedia.		
7.**Student Assessment**			
A. Student Assessment Methods	End of course written exam: A paper based exam **to assess** the student's comprehension and understanding of the class work Oral exam: to assess student's intellectual and communication abilities regarding basic knowledge and understanding of the course topics. Practical exam: objective structured practical examination to assess student professional and practical skills		

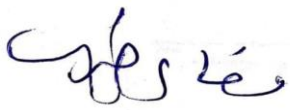
B. Assessment Schedule (Timing of Each Method of Assessment)	End of course exam (written, oral and practical exams) **Week** 23
C. Weighting of Each Method of Assessment	Final written Examination: 8 marks Oral and practical Examination:12 marks Total 20 marks
8.List of References	
A. Course Notes/handouts	Department Books, and notes on Medical Microbiology and Immunology by microbiology department, Faculty of medicine, Minia university
B. Essential Books	Jawetz, Melnick and Adelberg's Medical Microbiology 17th edition by Riedel. S (2019); McGraw-Hill Education Review of Medical Microbiology and Immunology 17th edition by warren levinson (2022); McGraw-Hill Education
C. Recommended Text Books	Janeway's Immunobiology 9th edition by Kenneth Murphy and Casey Weaver, (2016); Garland Publishing Inc. NY, London.
D. Periodicals, websites	TBD and updated during the course work
Course Coordinator: Dr. Dalia Nabil **Head of Department : Prof. Dr. Wafaa Khairy** Date of last update : 6/3/ 2023	
	

Blueprint of Medical Microbiology and Immunology Exam paper for 1st part of Master of Chest (CH200) (8 marks)

(List of course topics)	Hours	Intended learning outcomes (ILOS)		N of item per topic	% of topic	Knowledge & Understanding		Intellectual Skills		Total mark	Actual mark
Contents		Knowledge & Understanding	Intellectual Skills			No of items	mark	No of items	mark		
1. General Microbiology	4	70%	30%	4	20	2	1.1	1	0.5	1.6	1.5
2. Immunology	3	70%	30%	3	15	2	0.8	1	0.4	1.2	1
3. Bacteriology	3	70%	30%	3	15	2	0.8	1	0.4	1.2	1
4. Virology	3	70%	30%	3	15	2	0.8	1	0.4	1.2	1.5
5. Applied Microbiology	5	70%	30%	5	25	4	1.3	2	0.7	2	2
6. Nosocomial Infection and Infection control	2	70%	30%	2	10	2	0.5	1	0.3	0.8	1
Total	20				100 %					8	8

Head of Department: Prof. Dr. Wafaa Khairy

Date of last update: 3/ 2023



نموذج رقم (١١)

جامعة/أكاديمية : المنيا كلية / معهد: الطب قسم: الأمراض الصدرية	مسمى المقرر	Chest Diseases and Tuberculosis
	كود المقرر	CH 200

A. Matrix between ILOs and course topics

Intended Learning Outcomes (ILOs)				Contents (List of course topics)
D. General & Transferable Skills	**C. Professional & Practical skills**	**B. Intellectual Skills**	**A. Knowledge & Understanding**	
D	C	B	A	
D4 D5	C1 C2	B1	A3 A5 A7	**1. Introduction and collection of pathological samples**
D1 D3	C1,C4	B1	A3 A5 A6	**2. Cleaning, sterilization and disinfection**
D1 D3	C1	B1	A1 A5 A6	**3. Antimicrobial chemotherapy**
D1 D1 D3	C1, C1	B1 B2	A1 A5 A7	**4. Bacteremia, toxemia and toxic shock**
D1 D3 D5	C1	B1	A1	**5. Fever**
D1 D4	C1,C1	B1	A1	**6. Laboratory used in epidemiology**
D3	C1,C4	B1	A3 A7	**7. Basic immunology 1**
D1 D3 D4	C1,C4	B1	A1 A2A4	**8. Basic immunology 2**
D1	C2	B1 B2	A3 A4 A5	**9. Hypersensitivity reactions**
D1 D3 D4	C4,C4	B1	A1,A6, A7	**10. Mycoplasma**
D1 D3 D4	C1, C3	B1 B2	A1 A5	**11. Mycobacterial infections**
D5	C1	B1	A3 A4	**12. *Haemophilus influenza***

D3 D4	C1 C2	B1	A3A4	***13. pneumococci***
D3	C1,C2	B1	A3 A4	**14. General virology**
D1 D3	C1, C4	B1 B2	A1 A3	**15. Viral Hepatitis**
D1 D3 D4	C1, 5	B1	A5 A6	**16. Human immunodeficiency**
D1,D1,D3	C1, C3	B1,B1	A1,A1,A3	**17. Covid-19**
D3 D4	C1	B1	A4 A5 A6	**18. Influenza viruses**
D3 D4	C1,C4	B1	A3 A4	**19. paramyxoviruses**
D4 D5	C1,C4	B1	A1 A2 A3	**20. Bacterial, viral and fungal respiratory tract infections**
D3 D5	C1, C3 C4	B1	A1 A2 A4 A6	**21. Blood-transmitted diseases**
D4 D5	C1,C2,C4	B1	A1	**22. Nosocomial infections**
D4	C1,C4	B1	A1 A2 A3	**23. Infection control and Occupational safety**

Head of Department: Prof. Dr. Wafaa Khairy

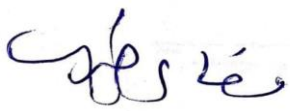
Date of last update: 3/ 2023

B- Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	A1 A2 A3 A4 A5 A6 A7	B1	C1	D1 D5
Practical exam			C1 C2 C3 C4	D3 D4
Oral Exam				D1 D2 D5

Head of Department: Prof. Dr. Wafaa Khairy

Date of last update: 3/ 2023



C. Matrix of Coverage of Course ILOs by Methods of Teaching

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1 A2 A3 A4 A5 A6 A7	B1		
Practical			C1 C2 C3 C4	D1 D2 D5
Presentation/seminar				D3 D4

Head of Department: Prof. Dr. Wafaa Khairy

Date of last update: 3/ 2023

نموذج رقم (١٢)

Medical Biochemistry	مسمى المقرر	جامعة/أكاديمية : المنيا كلية / معهد: الطب قسم: الأمراض الصدرية
CH 200	كود المقرر	

Course Specifications of Medical Biochemistry for first part MSC degree in chest Diseases and Tuberculosis

University: Minia University

Faculty: Faculty of Medicine

Department: Medical Biochemistry

Last date of approval: 6/3/2023

1. Course Information

• **Academic Year/level:** First Part of Master Degree	• **Course Title**: First Part of Master Degree in Chest Diseases	• **Code**: CH200
• **Number of teaching hours:** Lectures: 30 hours; 1.5 hours/week		

2. Overall Aims of the course	***By the end of the course the student must be able to:*** 1. Provide the postgraduate student with the medical Knowledge and skills essential for the practice of specialty and necessary to gain. 2-To understand all molecular basics and diseases. 3-To know different molecular techniques and their advanced applications 4-To better understand and use the research tools including internet and different laboratory equipment. 5-To know retrieving the literature and understanding the evidence-based medicine 6-Maintain learning abilities necessary for continuous medical education. 7-Maintain research interest and abilities.
3. Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***	
A- Knowledge and Understanding	The student finishes the course; he will be able to achieve the following objectives: A1. Various metabolic processes of carbohydrate, lipid and protein A2. Role of minerals and hormones in metabolism. A3. Various metabolic diseases and their diagnosis A4. Integration of metabolism A5-Know principles, methodologies, tools and ethics of scientific resear
B- Intellectual Skills	B1-Develop the skills for analysis of different diseases to reach a final diagnosis.

	B2-Develop the ability to solve problems associated with metabolic diseases. B3-Develop the ability to integrate metabolic pathways with diseases.
C- Professional and Practical Skills	After completing the course, the student should be able to C1. Organize groups, as a leader or as a colleague. C2. Practice willingly the presentation skills through the attendance and participation in scientific activities.
D- General and transferable Skills	After completing the course, the student should be able to D1. Be aware of the advanced biomedical information to remain current with advances in knowledge and practice (self-learning). D2. Prepare for medical progress by having advanced medical research studies

4- Course Contents

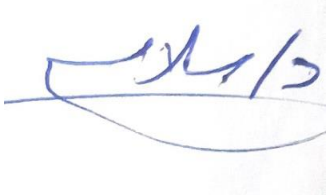
Topic	Lecture hours/week	Practical/ Clinical hours/week	Total No. of hours/week
1. Carbohydrate Metabolism	4	---	4
2. Lipid metabolism	4	---	4
3. Protein metabolism	4	---	4
4. Purines and pyrimidine metabolism	2	---	2
5. Integration of metabolism	2	---	2
6. Minerals	3	---	3
7. Hormones	3	---	3
8. Vitamins	3	---	3
9. Xenobiotics	2	---	2
10. Body fluids	2	---	2
11. Hemoglobin metabolism	2	---	2
Total	**30**	**---**	**30**

5- Teaching and Learning Methods	1- Lectures & discussions. 2- Assignments 3- Attending and participating in scientific conferences and workshops to acquire the general and transferable skills needed
6- Teaching and Learning Methods for students with limited Capacity	• Additional lectures, adjusting time and place of lectures according to their schedule and capacity

7- Student Assessment	
A-Student Assessment Methods	**1- Written exam** to assess the capability of the student for assimilation and application of the knowledge included in the course. **2-Oral exam** to assess the student intellectual and communication skills regarding basic knowledge and understanding of the course topics, and to help the teaching staff to evaluate the % of achievement of the intended learning outcomes of the course
B-Assessment Schedule (Timing of Each Method of Assessment)	***Assessment 1: one written exam*** *by the end of the course* **Assessment 2: *Oral exam,*** *after the written exam* **Formative only assessment:** log book.
C-Weighting of Each Method of Assessment	**Written examination:** 10 marks **Oral examination**: 15 marks **Total**: 25 marks
8- List of References	
A-Course Notes/handouts	Lectures notes are prepared in the form of a book authorized by the department.
B-Essential Books	-Harper's Biochemistry, Robert K. Murray, Daryl K. Granner, PeterA.Mayes, and VictorW. Rodwell (30th edition, 2010)
C- Recommended Text Books	a. Lubert Stryer, Biochemistry b. Lehninger, Biochemistry c. Lippincott, Biochemistry
D-Periodicals, websites	To be determined and updated during the course work. **Websites:** 1-http://www.Medical Biochemistry.com. **Periodicals:** 1- International journal of biochemistry) 2- Science

Course Coordinator/s: Dr. Dr. Heba Marey

Head of Department: Prof. Dr. Salama Rabie Abd El Rahiem



Date of <u>last update</u> & approval by department Council: 6 / 3 / 2023

Blueprint of Medical Biochemistry Department

Blueprint of Examination Paper

(10 marks)

	Topic	Hours	Knowledge %	Intellectual %	% of topic	No of items per topic	Knowledge		intellectual		Marks	Actual mark
							No of Items	*Mark*	*No of Items*	*Mark*		
1	General metabolism	15	70	30	50	6	5	4.2	1	0.8	5	5
2	Purine and pyrimidine metabolism and Gene Therapy	3	70	30	10	2	1	0.5	1	0.5	1	1
3	Enzymes and Hormones	3	70	30	10	4	3	0.75	1	0.25	1	1
4	Minerals and Vitamins	6	80	20	20	4	3	1.5	1	0.5	2	2
5	Xenobiotics and Hemoglobin metabolism	3	75	25	10	2	1	0.5	1	0.5	1	1
	Total	30			100 %						10	10

Head of Department: Prof. Dr. Salama Rabie Abd El Rahiem

Date of last update & approval by department Council: 6 / 3 / 2023

نموذج رقم (١١)

Medical Biochemistry	مسمى المقرر	جامعة/أكاديمية : المنيا كلية / معهد: الطب قسم: الأمراض الصدرية
CH 200	كود المقرر	

Annex (1): Matrix of Coverage of Course ILOs By Contents

Contents (List of course topics)	Week No.	Intended Learning Outcomes (ILOs)			
		A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
1. Carbohydrate Metabolism	**1**	+	+	+	+
2. Lipid metabolism	**2**	+	+	+	+
3. Protein metabolism	**3**	+	+	+	+
4. Purines and pyrimidine metabolism	**4**	+	+	+	+
5. Integration of metabolism	**5**	+	+	+	+
6. Minerals	**6**	+	+	+	+
7. Hormones	**7**	+	+	+	+
8. vitamins	**8**	+	+	+	+
9. Xenobiotics	**9**	+	+	+	+
10. Body fluids	**10**	+	+	+	+
11. Hemoglobin metabolism	**11**	+	+	+	+

Head of Department: Prof. Dr. Salama Rabie Abd El Rahiem

Date of last update & approval by department Council: 6 / 3 / 2023

Annex (2): Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

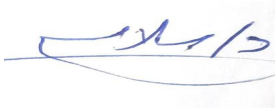
Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	x	X		
Practical			x	x
Presentation/ seminars		X		
Journal club	X	x		
Thesis discussion	X		x	x
Training courses & workshops		x	x	x
Others				

Date of the last approval by department council: 6-3-2023
Head of the department signature:

Annex (3): Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	x	X		
Oral Exam		X		
Assignments	x		x	x
Other	x	X	x	x

Date of the last approval by department council: 6-3-2023
Head of the department signature:



نموذج رقم (١٢)

Histology	مسمى المقرر	جامعة/أكاديمية : المنيا كلية / معهد: الطب قسم: الأمراض الصدرية
CH 200	كود المقرر	

Course Specifications of Histology for first part MSc degree in chest diseases and Tuberculosis

University: Minia University

Faculty: Faculty of Medicine

Department: Anatomy and Embryology

1. Course Information		
Academic Year/level: 1st part of master degree of chest diseases and tuberculosis	**Course Title:** Histology and Cell Biology	• **Code**: CH200
• **Number of teaching hours: 23** - **Lectures:** Total of 12 hours. 1/2h/week - **Practical:** Total of 11 hours. 1/2h\week		
2. Overall Aims of the course	By the end of the course the student must be able to: 1. Provide the postgraduate students with the medical Knowledge and skills essential for the practice of specialty and necessary to gain. 2. Provide master students with basic information about the structure and function of different tissues and organs affected in many diseases. 3. Maintenance of learning abilities necessary for continuous medical education. 4. Maintenance of research interest and competences.	
***3.* Intended learning outcomes of course (ILOs):** *Upon completion of the course, the student should be able to:*		
A- Knowledge and understanding	A1. Define the histological structure of body tissues and organs A2. List the structure and function of the different cells and organs. A3. List the basic abnormalities that might affect the tissue as a result of diseases A4. To identify the ability of different tissue to regenerate following the treatment of diseased condition.	
B- Intellectual Skills	B1. Interpret histological changes in diseases compared to the normal histology	
C- Professional and Practical Skills	C1. Teamwork, practicing and participation in scientific activities. C2. Master the basic and modern medical skills in the area of specialty. C3. Examine histological slides & identify the structure of different cells & organs.	

D- General and transferable Skills	D1. Practice in groups, as a leader or as a colleague. D2. Use the advanced biomedical information to remain current with advances in knowledge and practice (self-learning). D3. Play role in the medical progress by having advanced medical information. D4. Be aware about the presentation skills through the attendance and participation in scientific activities.

4. Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours/week
Introduction	1/2	-	1/2
Blood1	1/2	1/2	1
Blood2	1/2	1/2	1
Blood3	1/2	1/2	1
Blood4	1/2	1/2	1
Connective tissue1	1/2	1/2	1
Connective tissue2	1/2	1/2	1
Connective tissue3	1/2	1/2	1
Cardiovascular system 1	1/2	1/2	1
Cardiovascular system 2	1/2	1/2	1
Lymphatic system 1	1/2	1/2	1
Lymphatic system2	1/2	1/2	1
Lymphatic system3	1/2	1/2	1
Lymphatic system4	1/2	1/2	1
Respiratory system 1(respiratory epithelium)	1/2	1/2	1
Respiratory system2	1/2	1/2	1
Respiratory system3	1/2	1/2	1
Respiratory system4	1/2	1/2	1
Epithelium	1/2	1/2	1
Muscular tissue	1/2	1/2	1
Nervous tissue	1/2	1/2	1
Nervous2	1/2	1/2	1
Nervous3	1/2	1/2	1
Revision	1/2	-	1/2
Total	12	11	23

5. Teaching and Learning Methods	• Lectures & group discussions. • Assignments and practical activities. • Attending and participating in scientific conferences and workshops to acquire the general and transferable skills needed
Teaching and Learning Methods for students with limited Capacity	
6. Student Assessment	
A. Student Assessment Methods	Written exam to assess capability of students to assimilate and applicate knowledge included in the course. Oral exam to assess the student intellectual and communication abilities regarding basic knowledge and understanding of the course topics, and t help the teaching staff to evaluate the percentage of achievement of the intended learning outcome of the course.
B. Assessment Schedule (Timing of Each Method of Assessment)	**Assessment 1:** written exams by the end of the course. **Assessment 2:** Oral exam, after the written exam. **Formative only assessment:** simple research assignment, logbook, slide box.
C. Weighting of Each Method of Assessment	Written exam 12 40% Oral exam 18 60% Total 30 100%
7. List of References	
A. Course Notes/handouts	Notes of department and practical notebook
B. Essential Books	1. Basic histology, Junqueira et al. 2. Bloom and Fawcett: Concise Histology. 3. Fawcett., Cell biology and histology. Gartner et al. 4. Lippincott Illustrated review: integrated systems 5. Oxford Handbook of Medical sciences

C. Recommended Text Books	1. Wheater's Functional Histology A Text and Colour Atlas. 7th Edition - April 3, 2023. 2. Stevens & Lowe's Human Histology (Fourth Edition) 4th Edition. 2015.
D. Periodicals, websites	**Web Sites:** To be determined and update during the course work. 1. http://www.histology-world.com. 2. http://histo.life.illinois.edu/histo/atlas/slides.php **Periodicals:** 1. Journal of molecular histology 2. Egyptian J of Histology 3. Egyptian J of Anatomy 4. Acta Anatomica 5. International J of Experimental Research 6. Cell and Tissue Research

Course Coordinator/s: 1-Assisstant prof. Soha Abel Kawy

2- Assistant Lecturer: Reham Abo El-Leil

Head of Department: Prof. Dr. Seham Abd El-Raouf Abd El-Aleem

Seham Abd El-Raouf Abd El-Aleem

Date of last update & approval by department Council: 6/3// 2023

نموذج رقم (١١)

جامعة/أكاديمية : المنيا كلية / معهد: الطب قسم: الأمراض الصدرية	مسمى المقرر	Chest Diseases and Tuberculosis
	كود المقرر	CH 200

Annex (1): Matrix of Coverage of Course ILOs By Contents

Contents (List of course topics)	Week No.	Intended Learning Outcomes (ILOs)			
		A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
Introduction	1	A1			
Blood1	2	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Blood2	3	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Blood3	4	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Blood4	5	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Connective tissue1	6	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Connective tissue2	7	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Connective tissue3	8	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Cardiovascular system 1 Cardiovascular system 2	9 10	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Lymphatic system 1	11	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Lymphatic system2	12	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Lymphatic system3	13	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Lymphatic system4	14	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Respiratory system 1(respiratory epithelium) Respiratory system2	15 16	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Respiratory system3	17	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Respiratory system4	18	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Epithelium Muscular tissue Nervous tissue	19 20 21	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Nervous2	22	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4
Nervous3	23	A1,A2,A3,A4	B1	C1,C2,C3	
Revision	24	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4

Head of Department: Prof. Dr. Seham Abd El-Raouf Abd El-Aleem

Seham Abd El-Raouf Abd El-Aleem

Date of last update & approval by department Council: 6/3/ 2023

Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
Lecture	A1,A2,A3,A4	B1		
Practical			C1,C2,C3	
Presentation/seminar Training courses & workshops	A1,A2,A3,A4	B1	C1,C2,C3	D1,D2,D3,D4

Head of Department: Prof. Dr. Seham Abd El-Raouf Abd El-Aleem

Seham Abd El-Raouf Abd El-Aleem

Date of last update & approval by department Council: 6/3/ 2023

Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	A1,A2,A3,A4	B1	-	-
Oral Exam	A1,A2,A3,A4	B1	-	-

Head of Department: Prof. Dr. Seham Abd El-Raouf Abd El-Aleem

Seham Abd El-Raouf Abd El-Aleem

Date of last update & approval by department Council: 6/3/ 2023

نموذج رقم (١٢)

Internal medicine	مسمى المقرر	جامعة/أكاديمية : المنيا كلية / معهد: الطب قسم: الأمراض الصدرية
CH 200	كود المقرر	

Course Specifications of Internal medicine for first part MSc degree in chest diseases and Tuberculosis

University: Minia University

Faculty: Faculty of Medicine

Department: Internal medicine

1. Course Information

• **Academic Year/level:** 1st part MSc Chest diseases and tuberculosis	• **Course** Title: **Course specification of internal medicine in Master degree in Chest diseases and tuberculosis**	• **Code**: CH200

- **Number of teaching hours:**
  - **Lectures:** Total of 40 hours;2 hours/week for 20 week
  - **Practical/clinical:** Total of 40 hours; 2hours/week for 20 week

2. Overall Aims of the course	*By the end of the course the student must be able to:* 1- Identify common medical conditions accurately and independently on the basis of adequate history taking, physical examination and interpretation of relevant supportive investigations. 2- Solve acute medical emergencies safely and effectively without aid. 3- Perceive and integrate accurately the progress in medical knowledge and technology. 4- Value his standards of knowledge and training by clinical self-education.
3. Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***	
A- Knowledge and Understanding	A.1 Explain the common diagnostic and laboratory techniques necessary to establish diagnosis of common illness. A.2 Identify the principles and fundamentals of quality of professional practice in the field of internal medicine. A.3 extract the spectrum of clinical symptomatology related to different body systems. A.4 Discover the clinical spectrum of common medical conditions with multisystem affection.

	A.5 Describe the concept of emergency management of acute medical disorders (acute abdomen, acute cardiac illness, coma,……..).
B- Intellectual Skills	B.1 Describe appropriate management plans for individual patients presenting with the most common medical disorders (cardiac, hepatic, GIT, hematological, neurological, …..). B.2 Correlate from different diagnostic alternatives to reach a final diagnosis. B.3 Solve common clinical situations using appropriate problem solving skills. B.4 Interpret X-ray and CT films, blood gas, blood picture, bone marrow, liver and renal function reports covering the most important medical conditions. B.5 Identify appropriate professional attitudes and behaviors in different practice situations in cardiology hepatic diabetic,…..). B.6 Define risk in professional practices in the field of internal medicine. B.7 Identify medical problems and find solutions. B.8 Criticize non- traditional solutions to medical problems.
C- Professional and Practical Skills	C.1 Identify the basic and modern professional skills in the area of internal medicine. C.2 Tell a good medical history. C.3 Describe a proper general examination and identify the main bed side tests. C.4 Identify normal and abnormal physical signs. C.5 Describe proper regional examination of the thorax and abdomen by inspection, palpation, percussion and auscultation to identify: surface anatomy of internal organs, normal physical signs and abnormal physical signs. C.6 Identify a clear priority plan in the patient's management. C.7 Extract the clinical skills of eliciting abnormal physical signs in various systems examination. C.8 Interpret the significance and relevance of abnormal physical signs. C.9 Identify the appropriate supportive investigations relevant to a particular patient and adequately interpret the results. C.10 Classify patient's symptomatology, historic data, abnormal physical signs and investigations into a comprehensive differential diagnosis in various body systems affection. C.11 Identify adequate logistics for further patient assessment and management. C.12 Identify common medical conditions related to the specialty. C.13 Recognize special therapeutic and interventional techniques related to the specialty.

	C.14 Interprets adequately the results of common laboratory investigations as urine analysis, blood picture, liver and kidney function tests, etc. C.15 Interprets adequately X-ray, CT and ultrasonic images of common diseases. C.16 Interprets properly ECG recordings of cardiac conditions. C.17 Recognize patient clinical assessment and monitoring, their significance and inter-relations. C.18 Define adequately the patient's acute morbidity score and need for urgent intervention.
D- General and transferable Skills	D.1 Connect effectively with patients and their families. D.2 Illustrate problematic internal medicine-cases in seminars.

4. Course Contents

Topic	**Lecture hours/week**	**Practical/Clinical hours/week**	**Total No. of hours/week**
1- Cardiology	8	8	
Cardiovascular Symptoms and signs			
Rheumatic fever			
Infective endocarditis			
Valvular diseases			
Coronary artery diseases -Atherosclerosis-Acute coronary syndromes -Chronic ischemia			
Systemic Hypertension			
Heart failure			
2- Nephrology	**6**	**6**	
Renal failure			
Nephritis			
Nephrotic syndrome			
3- Haematology	**8**	**6**	
Lymphomas			
Anaemia			
Coagulation disorders			
4- Neurological Diseases	**6**	**6**	
Cerebrovascular stroke			
Myopathy			

5- Endocrinology	**8**	**8**	
Diabetis mellitus			
Thyroid diseases			
Adrenal gland diseases			
Obesity			
6- Hepatology & Gastroentology	**4**	**4**	
Liver cirrhosis and Liver cell failure			
Collagen vascular and systemic diseases			
Total	**40**	**40**	**80**

5. Teaching and Learning Methods	1- Lectures. 2- Practical / clinical lessons 3- Discussion sessions. 4- Information collections from different sources. 5- Attending and participating in scientific meeting and workshops 6 -Attendance local and international courses, workshops and training courses.

Teaching and Learning Methods for students with limited Capacity	
6. Student Assessment	
A. Student Assessment Methods	Student assignments: to assess general transferable skills and intellectual skills 2 Written examination: to assess knowledge. 3 Clinical examination: to assess practical and intellectual skills. 4 Oral examination: to assess knowledge.
B. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1. Written examination 24week Assessment 2. Oral examination 24week Assessment 3. Clinical examination 24week
C. Weighting of Each Method of Assessment	Written Examination: 24 degree Oral Examination : 16 degree Clinical Examination: 20 degree Total: 60 degree

7. List of References	
D. Course Notes/handouts	
E. Essential Books	Kumar and Clarke Textbook of Medicine; Parveen Kumar and Richard Clark; Blackwell Science; 14th edition, 2007 -Hutchison's Clinical Methods; Robert Hutchison; Harry Rainy; 21st edition;2003
F. Recommended Text Books	- Cecil Textbook of Medicine; McGraw Hill; 16th edition, 2007. - Harrison's Textbook of Medicine, McGraw Hill, 2005.
G. Periodicals, websites	, www.pubmed. Com

Course Coordinator/s: Dr: Aliaa Abdelfatah

Head of Department: Yousouf Ismail Mousa

Date of last update & approval by department Council: 6/3/2023

Blue Print of Internal Medicine for candidates of master degree in Chest diseases and tuberculosis (first part) examination paper (24 marks)

Topic	Hours	Knowledge %	Intellectual %	% of topic	Knowledge mark	Intellectual Mark	Marks	Actual Mark
1) Neurology:	6	70	30	15	2	1.5	3.6	**3.5**
2) **Hematology**:	8	75	25	20	3.5	1.5	4.8	**5**
3) Cardiovascular system	8	75	25	20	3.5	1.5	4.8	**5**
4) Endocrinology	8	75	25	20	3	1.5	4.8	**4.5**
5) Hepatology & GIT	4	70	30	10	1.5	1	2.4	**2.5**
6) Nephrology	6	70	30	15	2	1.5	3.6	**3.5**
Total	40			100%				**24**

Head of Department: Yousouf Ismail Mousa

Date of <u>last update</u> & approval by department Council: 6/3/2023

نموذج رقم (١١)

Medical Biochemistry	مسمى المقرر	جامعة/أكاديمية : المنيا كلية / معهد: الطب قسم: الأمراض الصدرية
CH 200	كود المقرر	

Annex (1): Matrix of Coverage of Course ILOs by Contents

Topic	Knowledge and understanding	Intellectual Skills	Professional and Practical Skills	General skills
Cardiovascular Symptoms and signs				
Rheumatic fever	A1-A5	B1-B8	C1-C18	D1,D2
Infective endocarditis	A1-A5	B1-B8	C1-C18	D1,D2
Valvular diseases	A1-A5	B1-B8	C1-C18	D1,D2
Coronary artery diseases -Atherosclerosis-Acute coronary syndromes -Chronic ischemia	A1-A5	B1-B8	C1-C18	D1,D2
Systemic Hypertension	A1-A5	B1-B8	C1-C18	D1,D2
Heart failure	A1-A5	B1-B8	C1-C18	D1,D2
Nephrology				D1,D2
Renal failure	A1-A5	B1-B8	C1-C18	D1,D2
Nephritis	A1-A5	B1-B8	C1-C18	D1,D2
Nephrotic syndrome	A1-A5	B1-B8	C1-C18	D1,D2
Haematology				D1,D2
Lymphomas	A1-A5	B1-B8	C1-C18	D1,D2
Anaemia	A1-A5	B1-B8	C1-C18	D1,D2
Coagulation disorders	A1-A5	B1-B8	C1-C18	D1,D2
Neurological Diseases				D1,D2
Cerebrovascular stroke	A1-A5	B1-B8	C1-C18	D1,D2
Myopathy	A1-A5	B1-B8	C1-C18	D1,D2
Endocrinology				D1,D2
Diabetis mellitus	A1-A5	B1-B8	C1-C18	D1,D2
Thyroid diseases	A1-A5	B1-B8	C1-C18	D1,D2
Adrenal gland diseases	A1-A5	B1-B8	C1-C18	D1,D2
Obesity	A1-A5	B1-B8	C1-C18	D1,D2

Head of Department: Yousouf Ismail Mousa

Date of last update & approval by department Council: 6/3/2023

B - Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
Lecture	A1-A5			
Practical		B1-B8	C1-C18	
Clinical (Including grand rounds)		B1-B8	C1-C18	
Presentation/seminar				D1-D2
Journal club	A1-A5			D1-D2
Training courses & workshops	A1-A5		C1-C18	

Date of last update & approval by department Council: 6/3/2023

Head of Department: Yousouf Ismail Mousa

Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
Written exam	A1-A5			
Practical exam		B1-B8	C1-C18	
Clinical exam		B1-B8	C1-C18	
Oral Exam		B1-B8	C1-C18	
Assignment				D1-D2

Head of Department: Yousouf Ismail Mousa

Date of last update & approval by department Council: 6/3/2023